Chapter 1 - Introduction

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The Accel-a-Writer 3 Series Printers

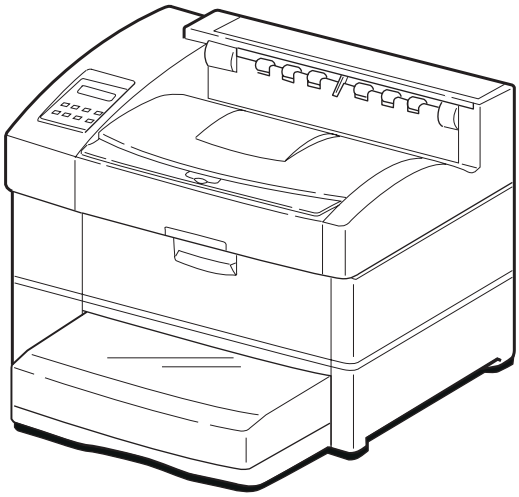

Fig. 1.1 Accel-a-Writer 3 Series Printer

Accel-a-Writer 3 printers are available in three models designed to meet the needs of a broad user base from corporate offices and small workgroups, to large volume producers, through high-end desktop publishers and graphics professionals. XANTÉ's flexible design provides the ability to upgrade from one model to the next, allowing your printer to grow with your business.

- The Accel-a-Writer 3N features a standard Ethernet interface, Adobe PostScript 3, and many other XANTÉ features to make it the ideal choice for corporate offices and small networked workgroups.
- The Accel-a-Writer 3DN offers all the features of a 3N plus a standard duplexer and additional paper feeder with a 500 sheet cassette for a standard input capacity to 1150 sheets, perfect for large volume printing.
- The Accel-a-Writer 3G is designed for users that require XANTÉ's advanced graphical support technologies.

About this Manual

This user's guide covers installation, setup, and operation of Accel-a-Writer 3 series printers.

Chapter 1—Introduction summarizes this manual, printer features, model configurations, and the printer warranty.

Chapter 2—Installation covers printer setup and connection to its Macintosh, PC, and Ethernet interfaces.

Chapter 3—Macintosh Setup describes the contents and use of the XANTÉ Utilities CD-ROM for the Macintosh. This includes installation for the Adobe PostScript printer drivers, your printer's PPD, XANTÉ Command Center, and the Adobe Downloader as well as procedures for using many printer features.

Chapter 4—PC Setup describes the contents and use of the XANTÉ Utilities CD-ROM for the PC. This includes installation for the Adobe PostScript printer drivers, your printer's PPD, XANTÉ Command Center, and procedures for using many printer features.

Chapter 5—Ethernet Setup describes EtherTalk, Novell Print Server, Line Printer, and NetBEUI protocols on the printer's Ethernet interface.

Chapter 6—Configuration describes using the front panel keys and menus and the Print dialog box to configure many printer features.

Chapter 7—Media Options describes media sizes and types for your printer and provides suggestions for creating high quality output with the various media.

Chapter 8—Printing with Various Media Types describes printing on envelopes, labels, film, and transparencies.

Chapter 9—Maintenance and Technical Specifications describes printer care, technical specifications, XANTÉ service options, and the printer warranty.

Chapter 10—Printer Options describes optional upgrades available for you printer.

Chapter 11—Troubleshooting provides troubleshooting tips and XANTÉ Technical Support options.

Appendix A—HP PCL5 and HP-GL 7475A Commands lists supported HP PCL5 and HP-GL 7475A commands.

Appendix B—Application Notes and Page Design details using the printer with some applications and offers page design tips.

Glossary—defines terms related to your printer, XANTÉ utilities, and the printing industry.

Index—alphabetically lists major manual topics with their corresponding page numbers and some cross-references.

The Accel-a-Writer 3 Menu quick reference sheet illustrates the printer's front panel menu structure and lists XANTÉ support.

Manual Conventions

The following conventions are used in this manual:

`Courier`	indicates information you must type or which displays on screen.
↵	indicates that you need to press the Return key on a Macintosh or the Enter key on a PC.
Note:	indicates additional or emphasized information.
Caution:	indicates instructions that *must* be followed exactly to avoid damage to files or equipment.
Warning!	indicates instructions that *must* be followed exactly or personal injury can occur.
:	indicates the path for a file or folder and links steps in procedures

(*model*)	indicates when a feature is available only on the listed model(s) and if that feature is optional on the listed model(s). Examples: (3G) = available only on the 3G (3G; 3DN and 3N optional) = standard on the 3G; optional on the 3DN and 3N

Printer Features

The printers feature true Adobe PostScript 3, allowing you to work from virtually any software or hardware environment. Adobe PostScript 3 features smooth shading, fast imaging, expanded font sets, international font support, and advanced page processing for fast, high quality imaging. PostScript typefaces work with the leading operating systems including Windows (95, 98, and NT) and Macintosh OS

The 3N and 3G printers feature a standard input capacity of 650 sheets—500 sheets in the standard paper cassette and 150 sheets in the multipurpose feeder. You can add up to two optional paper feeders (500 sheets each) to expand capacity to a maximum of 1650 sheets. An optional 2,000 sheet paper feeder can be installed as one of the optional feeders, providing these models with an input capacity of 3150 sheets.

The 3DN features a standard capacity of 1150— two 500 sheet standard cassettes and the 150 sheet multipurpose feeder. Plus, you can add the optional 2,000 sheet paper feeder to increase capacity to 3150 sheets.

Advanced paper handling capabilities on the printers include tray chaining, which allows you to switch to a second paper source when the first source is empty. And, the duplexer (3DN; 3N and 3G optional) allows you to print automatically on both sides of the paper.

The Accel-a-Writer 3N and 3DN printers allow you to use media from 3.94" x 5.83" (100 mm x 148 mm) to 13.00" x 18.50" (330 mm x 470 mm). With the 3G, you can use media up to 13.00" x 35.50" (330 mm x 901 mm).

Paper weights from 16 - 28 lb bond (60 - 105 g/m^2) can be used in the paper cassettes and from 16 - 36 lb bond (60 - 135 g/m^2) in the multipurpose feeder. You can feed transparencies, labels, envelopes, and Myriad film (3G) from the multipurpose feeder. The optional envelope cassette allows you to feed multiple envelopes and postcards.

XANTÉ's optional patented NEIT upgrade can be added to the Accel-a-Writer 3G. With NEIT, you can print images directly to XANTÉ's Myriad film, process the output through XANTÉ's FilmStar 2, and then use the film to burn metal plates or silk-screen emulsions.

Simultaneously active serial, parallel, LocalTalk, and Ethernet interfaces, allow Macintosh and PC computers to send files concurrently to the printer. You do not have to send software commands or manually set hardware switches to use a different interface.

Standard features include mirror and negative printing. With an optional hard disk, you can spool multiple jobs and use XANTÉ's Font Accelerator to increase printing performance of printer disk based fonts.

The Graphic Software Package on the Accel-a-Writer 3G offers advanced features designed for desktop publishers, graphics users, and prepress professionals.

- XANTÉ's patented Accurate Calibration Technology (X-ACT) allows you to calibrate the printer's line lengths and to correct inaccuracies in printing width, height, skew, and angle.
- Halftone Calibration Technology and densitometer support allow you to adjust an image's grayscale values and to calibrate printer output for specific ink, media, and environmental conditions.
- Enhanced Screening increases the number of gray levels produced for a line screen setting.

The XANTÉ Utilities include easy-to-use, menu driven programs and files to make working with your new printer more efficient.

Printer Configuration

Features	Accel-a-Writer Models 3N	3DN	3G
NEC VR 4310 166 MHz Processor	Std.	Std.	Std.
RAM:			
Standard (in MB)	16	32	64
Maximum (in MB)	256	256	256
Adobe PostScript 3	Std.	Std.	Std.
HP PCL 5e and HP-GL 7475A Emulation (with 8 scalable, 7 bitmap HP PCL compatible fonts)	Opt.	Opt.	Opt.
136 PostScript Fonts	Std.	Std.	Std.
Resolution:			
600 x 600 dpi	Std.	Std.	Std.
1200 x 1200 dpi	Opt.	Opt.	Std.
2400 x 2400 dpi†	N/A	N/A	Opt
Engine Speed (letter/A4):			
20 ppm up to 1200 dpi	Std.	Std.	Std.
10 ppm with 2400 dpi upgrade	N/A	N/A	Opt.
Interfaces:			
LocalTalk	Std.	Std.	Std.
Serial	Std.	Std.	Std.
Parallel	Std.	Std.	Std.
Ethernet	Std.	Std.	Std.
Paper Sizes:			
Up to 13.00" x 18.50" (330 mm x 470 mm)	Std.	Std.	Std.
Up to 13.00" x 35.50" (330 mm x 901 mm)	N/A	N/A	Std.

Features (continued)	Accel-a-Writer Models 3N	3DN	3G
Media Handling:			
Multipurpose Feeder	Std.	Std.	Std.
Built in Paper Feeder	Std.	Std.	Std.
Second Paper Feeder	Opt	Std.	Opt.
2,000 Sheet Paper Feeder§	Opt.	Opt.	Opt.
Duplexer§	Opt.	Std.	Opt.
Mirror Print	Std.	Std.	Std.
Negative Print	Std.	Std.	Std.
XANTÉ Utilities (PC and Macintosh)	Std.	Std.	Std.
Internal IDE Hard disk	Opt.	Opt.	Opt.
Spooling*	Std.	Std.	Std.
Font Accelerator*	Std.	Std.	Std.
NEIT†	N/A	N/A	Opt.
Graphic Software Package			
Halftone Calibration Technology	N/A	N/A	Std.
Enhanced Screening Technology	N/A	N/A	Std.
Accurate Calibration Technology	N/A	N/A	Std.
Densitometer Support	N/A	N/A	Std.

* Requires an optional internal hard drive

† Requires the printer engine speed be set to 10 ppm (letter/A4 output)

§ Not available on 10 ppm models

Warranty and Product Registration

Chapter 9 contains your printer's warranty. Please return the warranty sheet included with your printer to register your printer and to receive a free subscription to XANTÉ's *Accel-a-Writing* newsletter. Our publication features articles on printing, new options, and tips for using your printer effectively.

Other Helpful Documentation

Please visit our Web site at www.xante.com for the latest information about XANTÉ products and services. You may find the following publications helpful when working with Adobe PostScript printing.

PostScript Language Reference Manual, Second Edition. This manual, published by Addison Wesley, is designed for advanced users, such as programmers, who work with Adobe PostScript operators.

PostScript Language Tutorial and Cookbook. This manual, published by Addison Wesley, is designed for those who want to learn about working directly in the Adobe PostScript language.

Most bookstores and many computer businesses either keep these books in stock or can order them for you.

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Chapter 2 - Installation

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Notes

Introduction

This chapter describes selecting a printer location; installing toner and paper; connecting the printer to Macintosh, PC, and network hardware; and connecting the power supply.

Printer Location

Set up your printer in a location that can support its weight and provide sufficient operation and maintenance clearance. To prevent overheating, allow at least 8.0" (200 mm) clearance for the printer's vent.

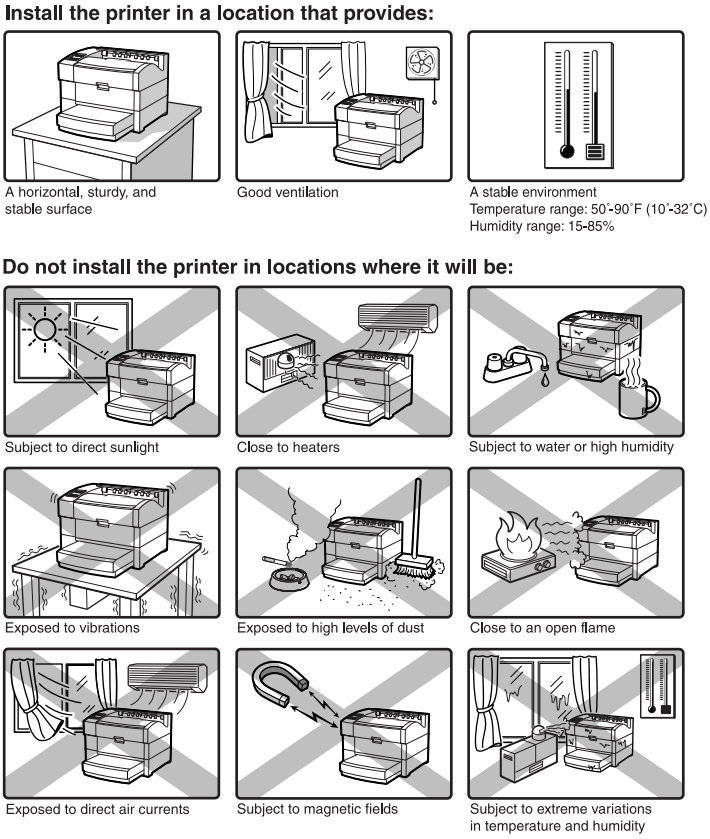
Install the printer in a location that provides:
A horizontal, sturdy, and stable surface
Good ventilation
A stable environment
Temperature range: 50˚-90˚F (10˚-32˚C)
Humidity range: 15-85%
Do not install the printer in locations where it will be:
Subject to direct sunlight
Close to heaters
Subject to water or high humidity
Exposed to vibrations
Exposed to high levels of dust
Close to an open flame
Exposed to direct air currents
Subject to magnetic fields
Subject to extreme variations in temperature and humidity

Fig. 2.1 Location Guidelines

Printer Package

Unpack the printer, saving the packing materials.

1. Remove the items packed on top of the printer.

Warning! The printer weighs approximately 58.5 lb (26.5 kg) without the toner, cassettes, and media installed.

- Always have two people lift the printer.
- Only lift the printer using the recessed grip areas on the right and left sides.

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2. Remove the shipping stabilizer on top of the printer; then, lift the printer out of the box (fig. 2.2).

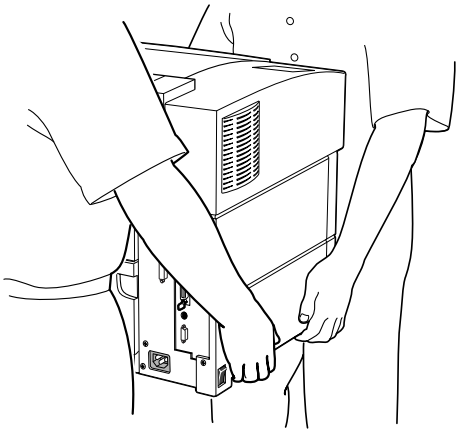

Fig. 2.2 Lifting the Printer

3. Remove the plastic wrap, tape, and shipping stabilizers from all of the items.

Your printer package contains the following items:

- Your XANTÉ printer
- 500 sheet cassette
- Power cord
- Accel-a-Writer 3 Series Printers User's Guide (this manual)

- XANTÉ Utilities CD-ROM
- Toner cartridge

The following items are packaged separately.

- Additional paper cassettes and feeders
- Duplexer

RAM, internal hard disk, resolution, 10/100BaseT, and NEIT upgrades ordered with your printer are installed at the factory before shipping.

If you do not receive your full shipment or if anything is damaged, call XANTÉ Customer Support at 800-926-8393 (US and Canada) or your XANTÉ vendor.

Accel-a-Writer 3 Series Printer Overview

Use Figures 2.3, 2.4, and 2.5 to become familiar with your new printer.

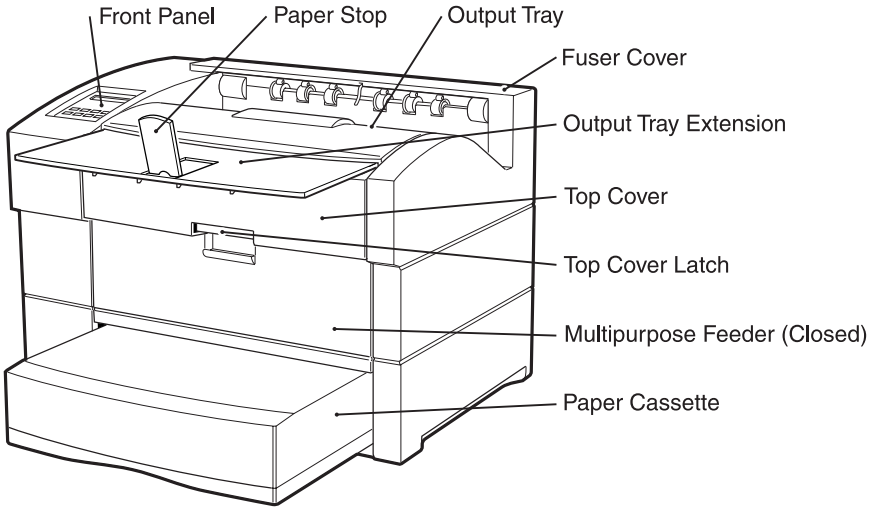

Fig. 2.3 Front View of the Printer

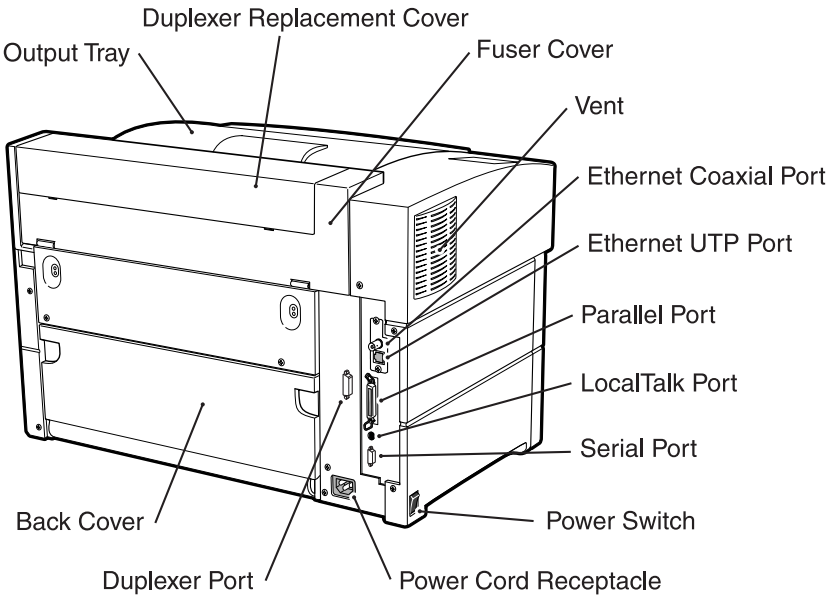

Fig. 2.4 Rear View of the Printer

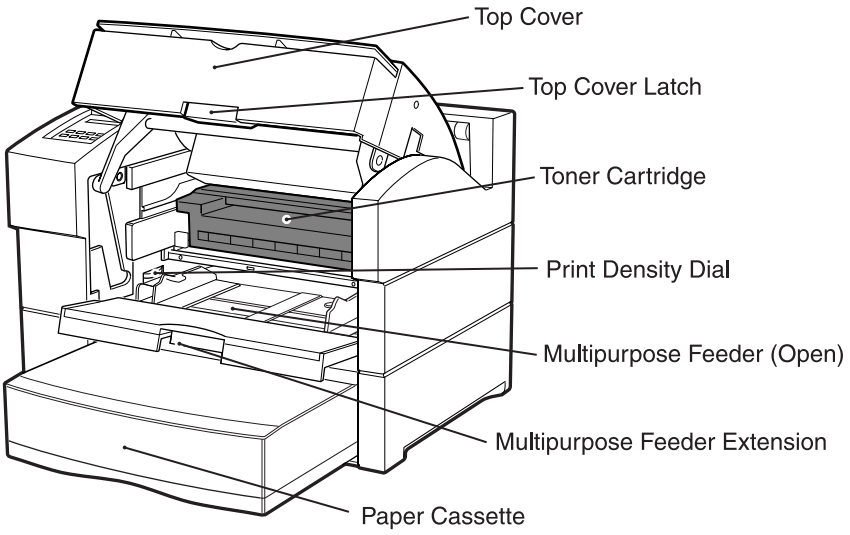

Fig. 2.5 Inside Front View of the Printer

Toner Cartridge

The printer's toner cartridge combines the toner and drum. This cartridge can print approximately 14,000 sheets of letter/A4 size pages at 5% coverage.

Quality and reliability of refilled toner cartridges vary; XANTÉ recommends not using them. Printer damage caused by these products is not covered by your printer warranty.

Handling the Toner Cartridge

Use these guidelines to ensure maximum life and print quality from your toner cartridge and to prevent cartridge or printer damage:

- Use toner cartridges before their expiration dates. Cartridge shelf life is approximately 2 years unopened or 6 months opened.
- Never move the printer with the cartridge installed. Toner spills can damage the printer.
- Do not expose the cartridge to bright lights or direct sunlight. Keep the cartridge in its protective bag until installation. If you have to remove the cartridge temporarily, place it in the original bag or wrap it well to protect it from light.
- Do not open the drum shutter or touch the drum's surface. The shutter protects the photosensitive drum from light.
- Keep the cartridge away from computer hard disks and monitors. It contains a magnet that can cause data loss or equipment damage.
- Store unopened cartridges right side up on a level surface.
- Always set the cartridge flat with the handles on the top.
- Dispose of the cartridge following safety laws and regulations.

Warning! The toner is highly combustible. Never dispose of it by incineration.

Removing and Installing the Toner Cartridge

1. Remove all media from the output tray.

2. Squeeze the top cover latch to release the lock (fig. 2.6).

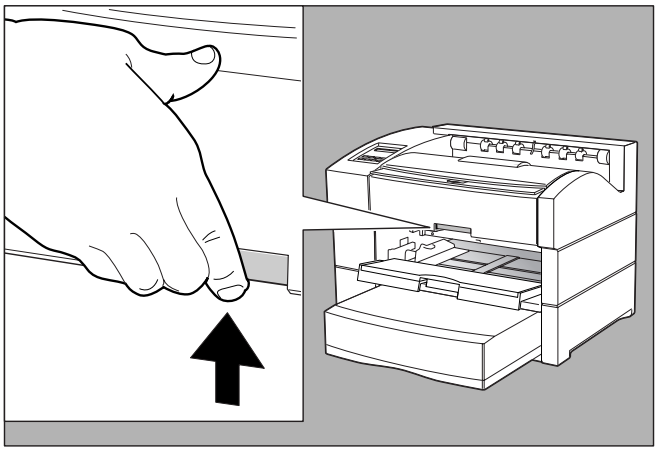

Fig. 2.6 Release the Top Cover Latch

3. Lift the top cover. The multipurpose feeder opens automatically as you open the top cover (fig. 2.7).

   Caution: Do not touch any parts inside the printer.

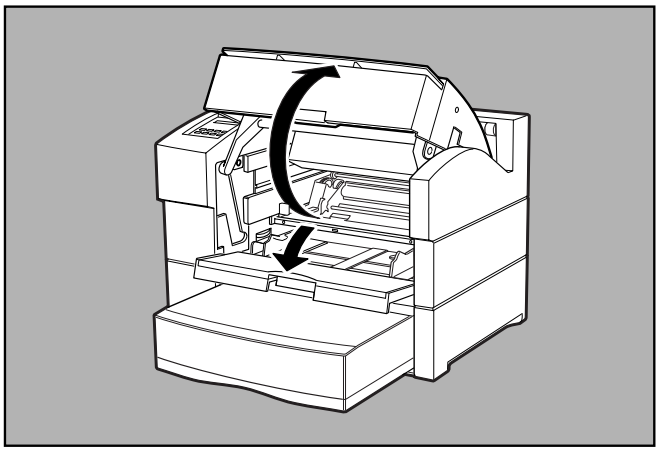

Fig. 2.7 Open the Top Cover and the Multipurpose Feeder

4. Remove the toner cartridge if it is in the printer by grasping its handles and pulling it slowly out of the printer (fig. 2.8).

   Caution: Once you begin pulling the cartridge out of the printer, remove it completely. The cartridge's shutter may not open properly or be damaged if the cartridge is pulled partially and then pushed back in the printer.

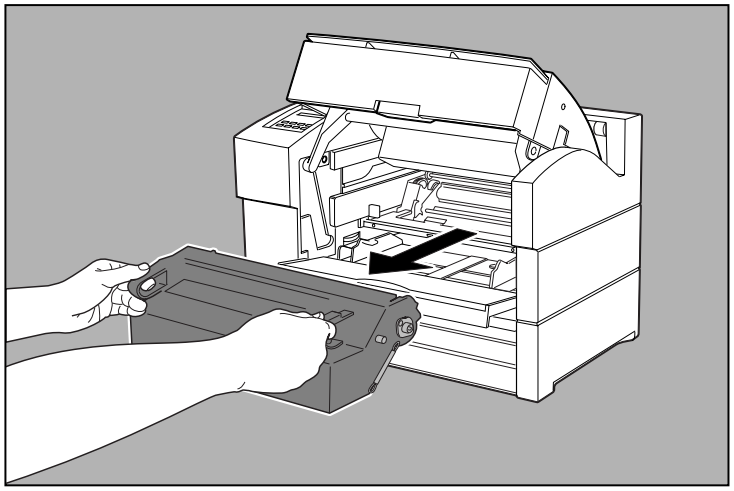

Fig. 2.8 Remove the Toner Cartridge

5. Remove the new toner cartridge from the package.

6. Gently shake the toner cartridge several times to distribute toner throughout the cartridge (fig. 2.9).

   Caution: Shake the cartridge enough to free any compacted toner. Turning on the printer with toner still compacted may damage the cartridge.

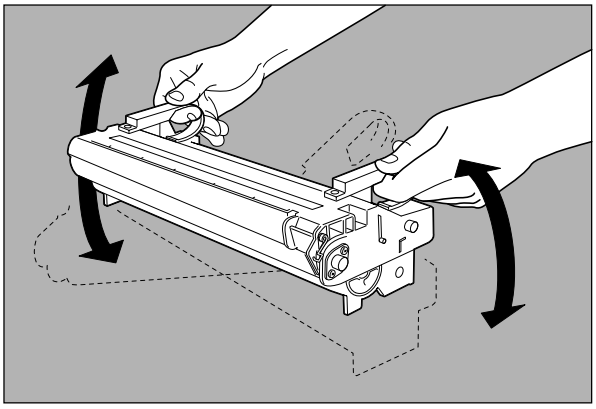

Fig. 2.9 Shake the Toner Cartridge

7. Place the toner cartridge on a flat surface, holding it in place with one hand. Grasp the sealing tape's end tab and pull the tape straight out (fig. 2.10).

   Caution: If the tape is pulled out at an angle, it may break off inside the cartridge.

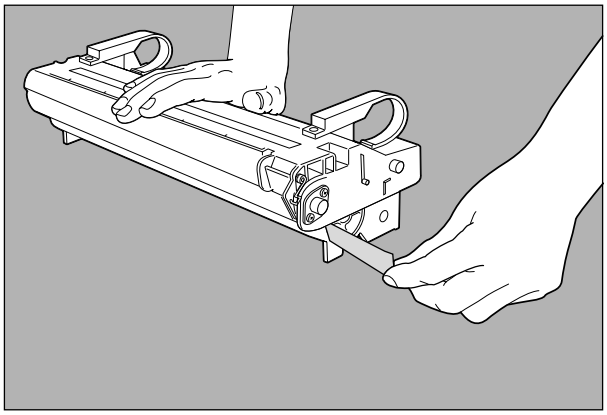

Fig. 2.10 Remove the Sealing Tape

8. Insert the pins on both sides of the cartridge into the guide channels in the printer (fig. 2.11).

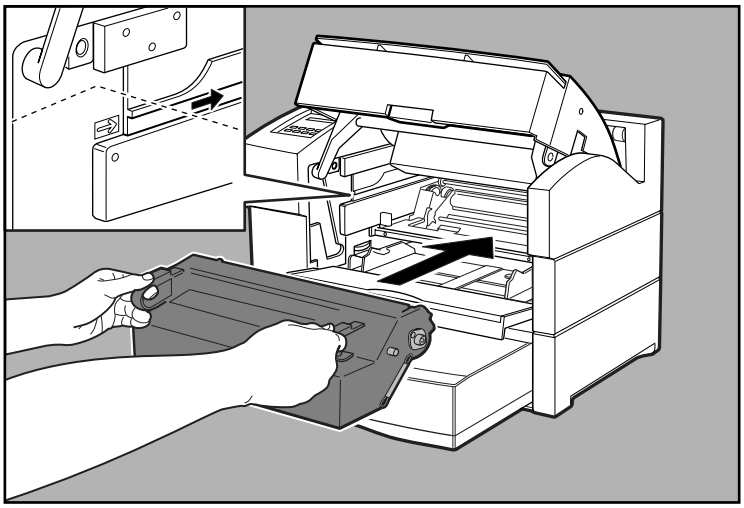

Fig. 2.11 Insert the Pins into the Guide Channels

9. Slide the cartridge into the printer until it stops and is seated properly (fig. 2.12).

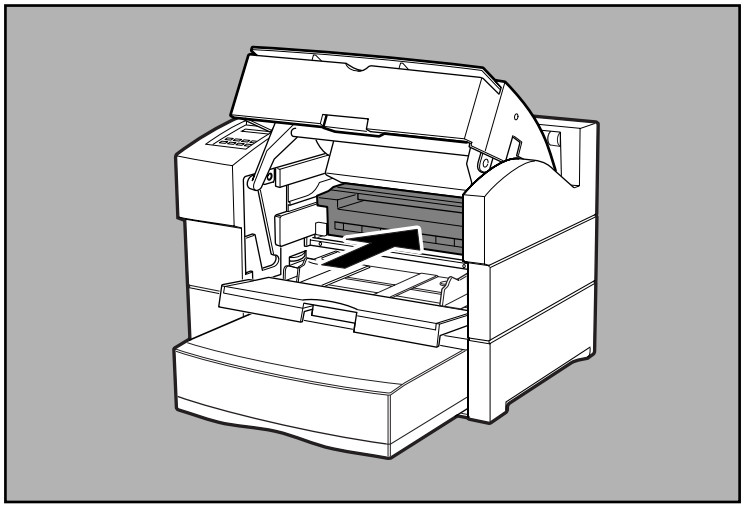

Fig. 2.12 Insert the Toner Cartridge

10. Close the top cover by pressing down on the center section until the latch engages (fig. 2.13).

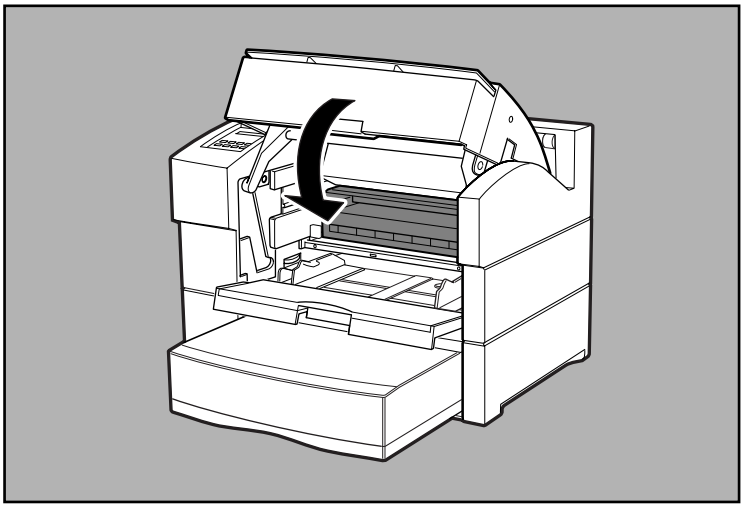

Fig. 2.13 Close the Top Cover

11. Close the multipurpose feeder (fig. 2.14).

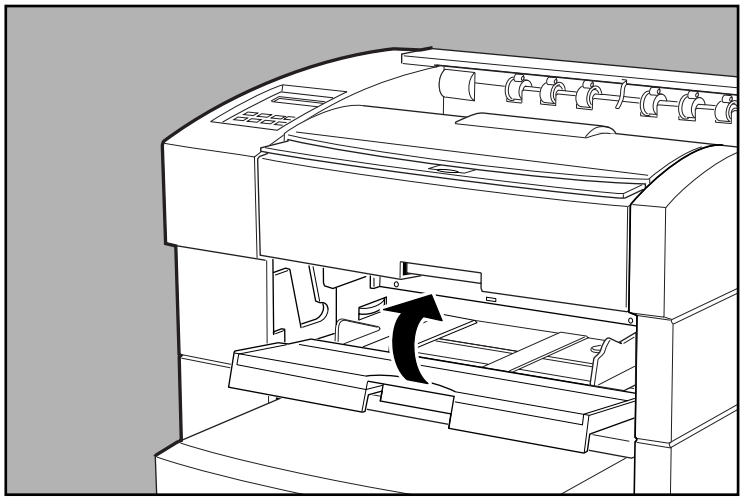

Fig. 2.14 Close the Multipurpose Feeder

Paper Cassette

The standard universal paper cassette feeds up to 500 sheets of 20 lb bond/60 lb text weight (65 g/m^2) paper or other paper to a stack height of 2.13" (54 mm). This cassette can handle media weights from 16 - 28 lb (60 to 105 g/m^2).

Note: An envelope cassette designed to feed up to 75 envelopes can be purchased as an option for your printer.

This section describes loading and installing the standard paper cassette. Chapter 7 covers media types and sizes for use in the paper cassettes and available optional cassettes. Chapter 10 describes installing optional paper feeders and the duplexer.

Caution: Make sure all paper used in your printer meets the guidelines in “Media Specifications” in chapter 7.

1. Remove the cassette if it is in the printer. To do this:

    a. Pull the cassette straight out until it stops (fig. 2.15).

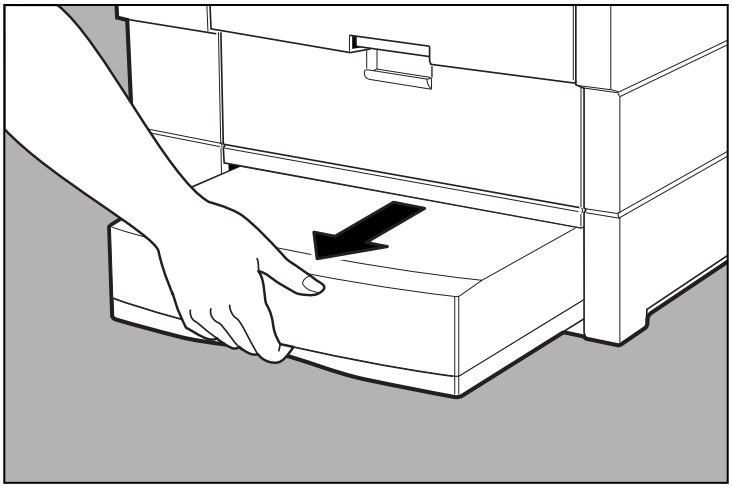

Fig. 2.15 Pull Out the Cassette

b. Lift up slightly on the cassette; then pull it from the printer (fig. 2.16).

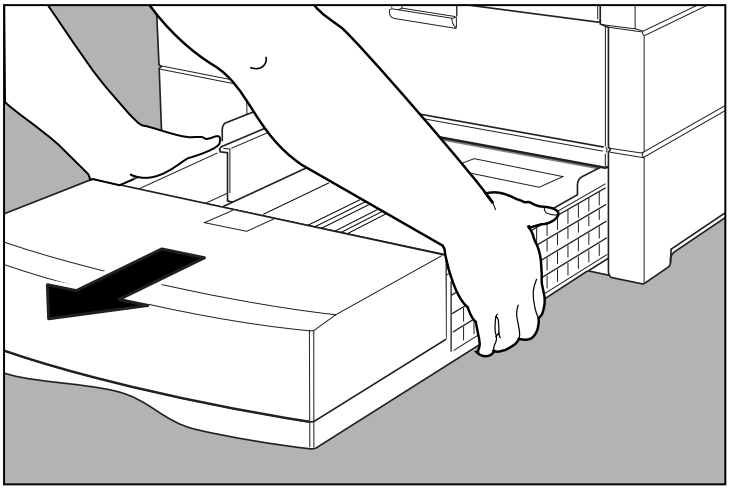

Fig. 2.16 Remove the Cassette from the Printer

2. Place the cassette on a flat surface and remove the cassette cover (fig. 2.17).

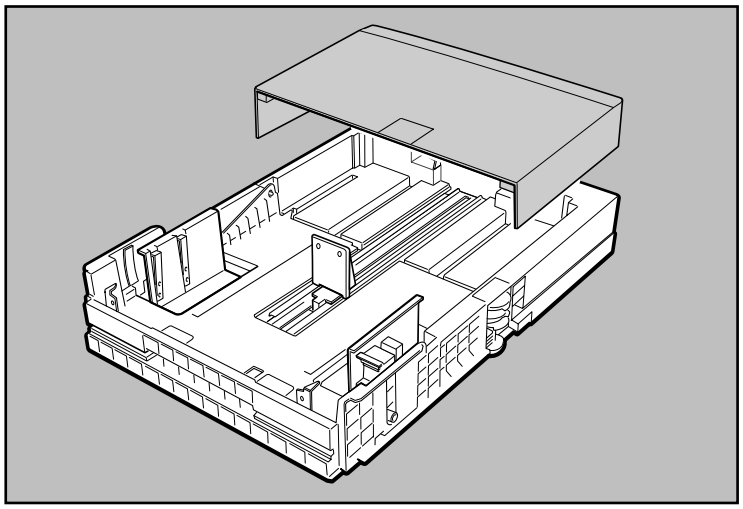

Fig. 2.17 Remove the Cassette Cover

3. Lift the paper length guide to release it. Slide it forward (fig. 2.18).

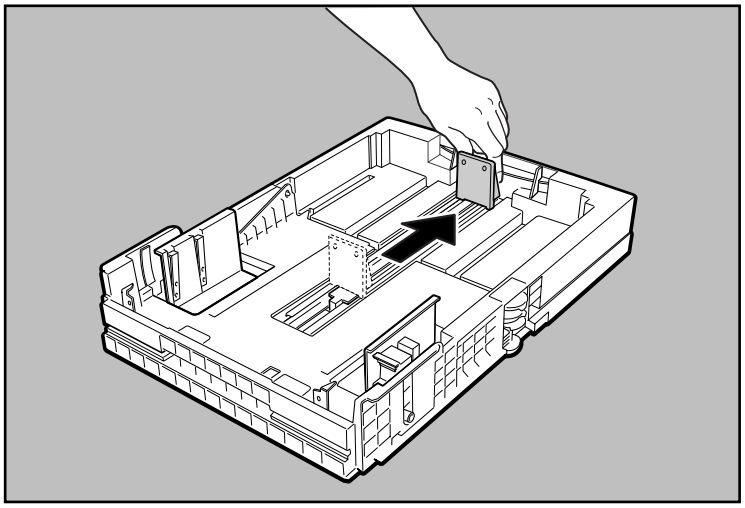

Fig. 2.18 Move the Length Guide

4. Squeeze the sides of the paper width guide to release it. Slide it to the outside of the cassette (fig. 2.19).

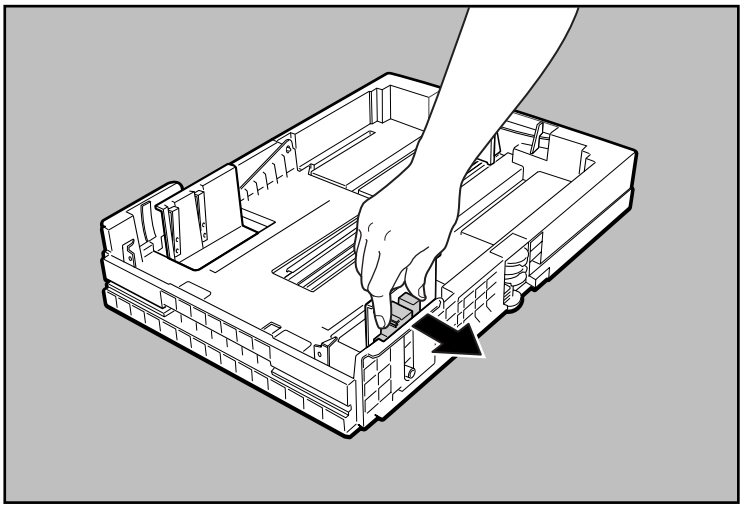

Fig. 2.19 Move the Width Guide

5. Align the paper stack and load it into the cassette print side up, leading edge to the back. See “Media Sources” in chapter 7 to determine whether to load media short or long edge first (fig. 2.20).

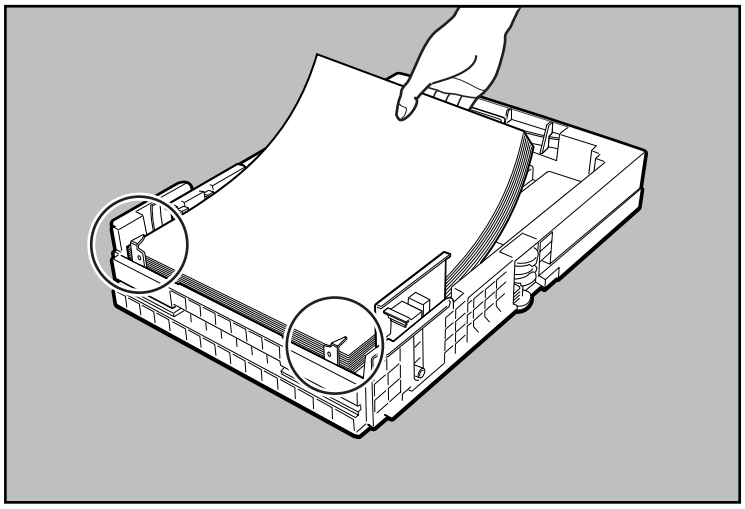

Fig. 2.20 Load the Paper

6. Adjust media guides to the size of the paper stack.

   Caution: To prevent paper jams, make sure the paper fits between the paper guides and under the cassette’s retaining clips (fig. 2.20).

7. Replace the cassette cover.

8. Slide the cassette into the printer until it snaps into place.

   Note: You will feel a slight resistance as you push the cassette into the printer caused by the catch that prevents the cassette from being dropped.

9. Pull out the output tray extension and turn up the paper stop for paper sizes larger than letter/A4 (fig. 2.21).

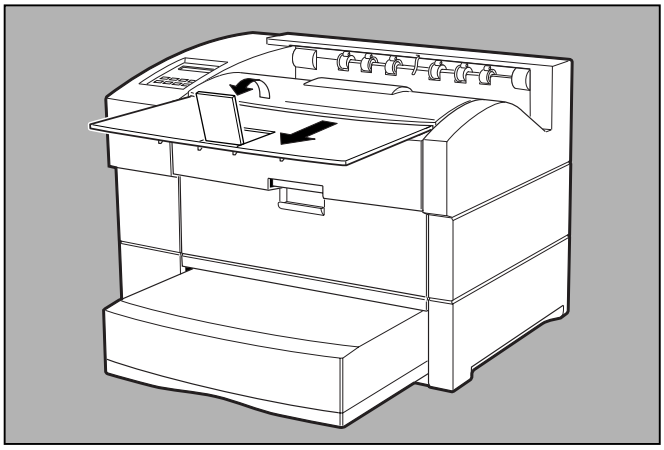

Fig. 2.21 Adjust the Output Tray Extension

Multipurpose Feeder

The printer's multipurpose feeder feeds up to 150 sheets of 20 lb bond/ 60 lb text weight (65 g/m^2) paper or media such as Myriad Film, labels, and transparencies to a stack height of about .70" (18 mm).

The multipurpose feeder supports non-standard size media, including envelopes from 3.94" x 5.83" (100 mm x 148 mm) to 13.00" x 18.50" (330 mm x 470 mm). With the Accel-a-Writer 3G, you can feed media up to 13.00" x 35.50" (330 mm x 902 mm). This feeder can handle media weights from 16 - 36 lb (60 - 155 g/m2).

To load the multipurpose feeder

Caution: Make sure all media used meets the guidelines in "Media Specifications" in chapter 7.

1. Open the multipurpose feeder by grasping the cover's top center handle and pulling down (fig. 2.22).

   Caution: The multipurpose feeder does not open to a 90° angle. To prevent damage, do not exert strong pressure or place heavy objects on the feeder.

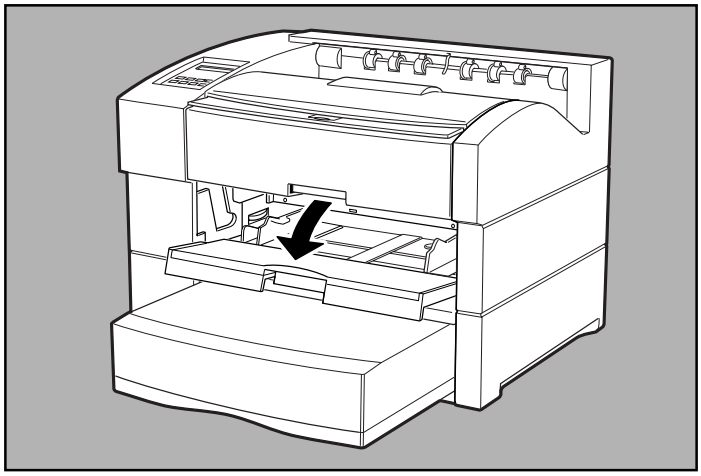

Fig. 2.22 Open the Multipurpose Feeder

2. Pull out the tray extension for media larger than letter/A4 size (fig. 2.23).

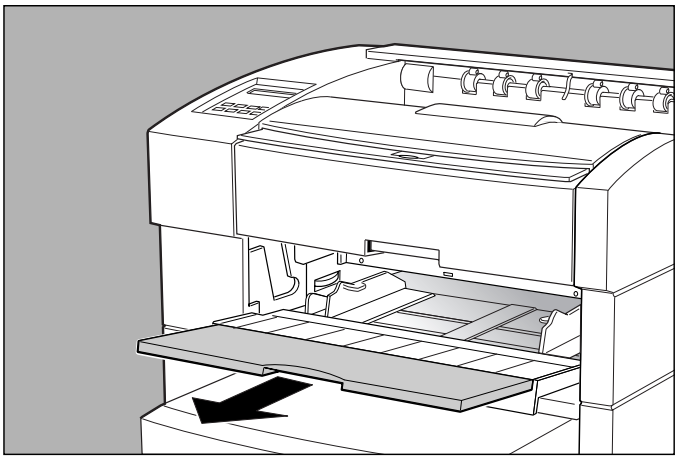

Fig. 2.23 Pull Out the Tray Extension

3. Align the edges of the paper stack and load it into the cassette print side up, leading edge toward the back of the printer (fig. 2.24). See “Media Sources” in chapter 7 to determine whether to load media short or long edge first.

   Caution: To prevent jams, make sure the media stack fits under the media guide’s retaining clips (fig. 2.24).

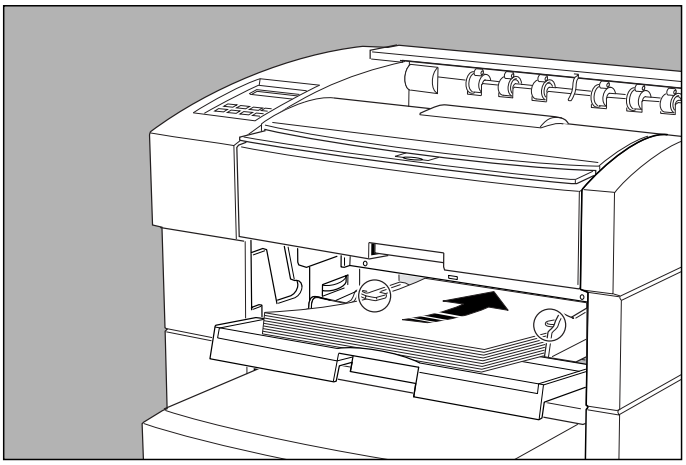

Fig. 2.24 Load the Paper

4. Adjust the media guide to the size of the media stack (fig. 2.25).

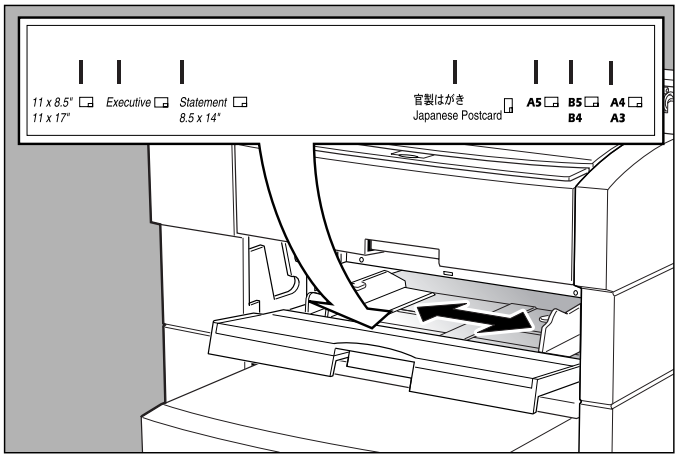

Fig. 2.25 Adjust the Media Guide

5. Close the multipurpose feeder if the media fits completely inside the printer (fig. 2.14).

Multipurpose Feeder Tip

Occasionally, in a Macintosh environment if media is in the multipurpose feeder, the system's Print Monitor sends a prompt message to put paper into the manual feed tray and click OK. To disable this prompt

Note: This prompt can only be turned off in Print Monitor. You cannot turn the manual feed message off on the Desktop Print Monitor.

1. Go to System Folder: Extensions: PrintMonitor.

2. Double click Print Monitor to open it. Then, select File: Preferences.

3. Select Give no Notification under When a manual feed job starts; then, click OK (fig. 2. 26).

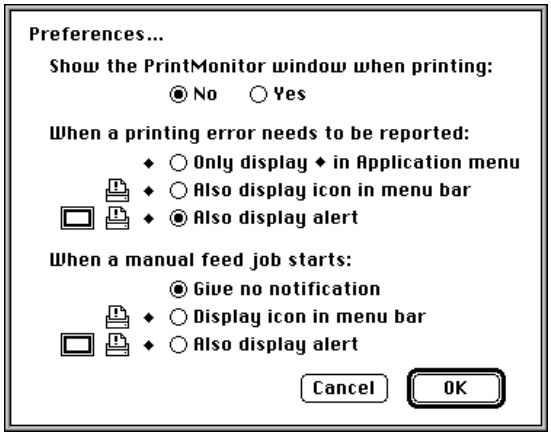

Fig. 2.26 Print Monitor Preferences

Note: This prompt only can be turned off in Print Monitor. You cannot turn the manual feed message off on the Desktop Print Monitor.

Printer Ports

All the Accel-a-Writer 3 series printers have standard LocalTalk, serial, parallel, and Ethernet ports. These simultaneously active interfaces can receive jobs from different operating environments without hardware switching.

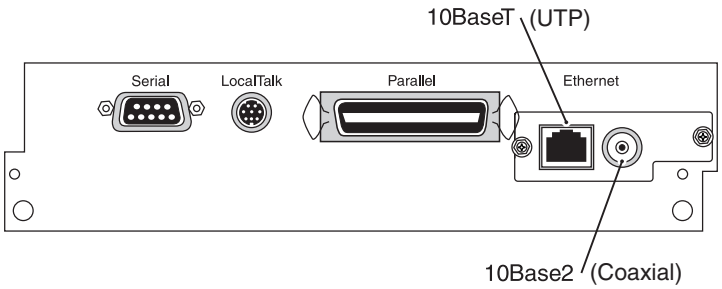

Fig. 2.27 Printer Ports

Selecting the Printer Interface

Connect to the printer interface that is appropriate for your host computer or network environment:

Macintosh without Ethernet		LocalTalk Port
PC without Ethernet		
PC/Printer distance	< 10 ft. (3 m)	Parallel Port
PC/Printer distance	> 10 ft. (3 m), < 25 ft. (7.6 m)	Serial Port
Ethernet connection		UTP or Coaxial

Connecting to the LocalTalk Port

Use the following equipment to connect your printer to a Macintosh computer via the LocalTalk port (fig. 2.27).

- Two LocalTalk connector boxes with DIN-8 connectors
- A standard phone cable (RJ-11)

- Two terminating resistors

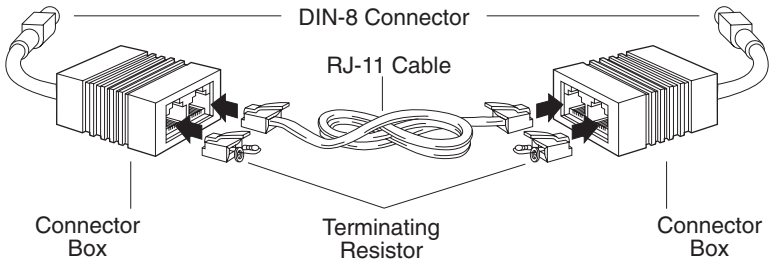

Fig. 2.28 LocalTalk Connector Boxes, Resistors, and Cable

1. Turn off your printer and your computer.

2. Plug the DIN-8 connector on one LocalTalk connector box into the printer's 8-pin LocalTalk port.

3. Plug the DIN-8 connector on the second LocalTalk connector box into the Macintosh's printer port (refer to your Apple Macintosh manual).

4. Connect the two LocalTalk connector boxes with the RJ-11 phone cable.

5. Plug the terminating resistor(s) into the open socket(s) in the connector box(es) (fig. 2.28).

   Note: Terminate open sockets on the ends of your LocalTalk network with terminators supplied with your LocalTalk connectors (fig. 2.28). Closing open sockets helps speed data transmission and ensure the printer is available in the Chooser.

6. Turn on your printer and Macintosh.

7. Verify that Macintosh is set up to communicate using LocalTalk.

   - For operating systems prior to 7.5, go to Control Panels: Network. Select LocalTalk.
   - For operating systems 7.5 and later, go to Control Panels: AppleTalk. From the Connect via menu, select Printer Port.

8. Verify that the printer's LocalTalk interface is enabled and configured properly. See "Interface Control" in chapter 6 and "XANTÉ Command Center" in chapter 3.

Before using your printer, install and configure the Adobe PostScript printer driver and your printer's PPD. See "Xinstaller" and "Adobe PostScript Printer Drivers" in chapter 3.

Connecting to the Parallel Port

Use a standard parallel cable to connect your PC and printer (fig. 2.29) via the parallel port. The cable's printer end has a 36-pin male connector and the computer end had a 25-pin male connector.

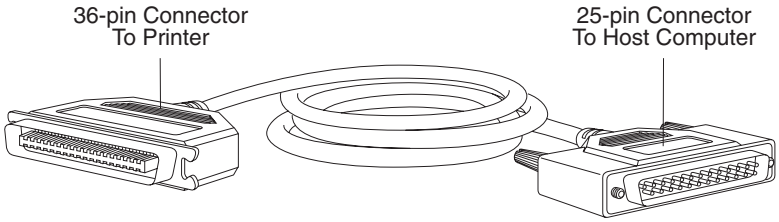

Fig. 2.29 Parallel Cable

1. Turn off your printer and PC.

2. Plug the cable's 36-pin connector into the printer's parallel port (fig. 2.29) and the 25-pin connector into the computer's parallel port.

3. Turn on your printer and PC.

4. Verify that the printer's parallel interface is enabled and configured properly. See "Interface Control" in chapter 6.

Before using your printer, install and configure the Adobe PostScript printer driver and your printer's PPD. See "XANTÉ Utilities Installer" and "Adobe PostScript Printer Drivers" in chapter 4.

Connecting to the Serial Port

Use a standard serial cable (fig. 2.30) with either a 9-pin or 25-pin female connector to attach to the computer and a 9-pin male connector to attach to the printer.

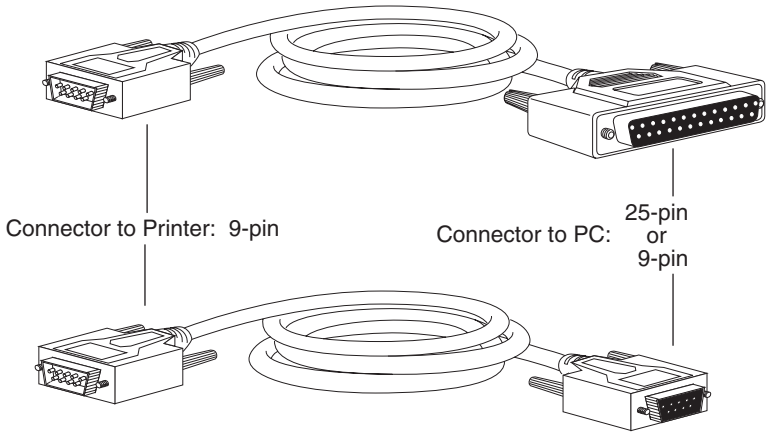

Fig. 2.30 Serial Cables

1. Turn off your printer and PC.
2. Plug the serial cable's 9-pin male connector into the printer's serial port.
3. Plug the other connector (either a 25-pin or a 9-pin female connector) into the computer's serial port.
4. Turn on your printer and PC.
5. Verify that PC and printer communication settings match.
   - Check your PC documentation to determine how to check and set the PC settings.
   - Check and set your printer settings using the front panel configuration menus. See "Interface Control" in chapter 6.
6. Verify that the printer's serial interface is enabled and configured properly. See "Interface Control" in chapter 6.

Before using your printer, install and configure the Adobe PostScript printer driver and your printer's PPD. See "XANTÉ Utilities Installer" and "Adobe PostScript Printer Drivers" in chapter 4.

Connecting to the Ethernet Port

With the Ethernet feature, you can connect to a network using unshielded twisted pair or coaxial cable.

Unshielded Twisted Pair (10BaseT, Optional 10/100BaseT)

Each device in a network installation using UTP cable must be connected to a hub. The maximum length for a UTP cable connection from device to hub is 328 feet (100 m). Larger networks are formed by linking hubs to repeaters, routers, gateways, or to other hubs.

UTP cable is the wire used in many telephone installations. The connectors used for an Ethernet network using UTP cable are RJ-45 plugs, which are similar to, but larger than ordinary telephone jacks.

Note: You can connect two Ethernet devices together, bypassing a hub, using a 10BaseT crossover/patch cable where pin 1 is crossed to pin 3 and pin 2 is crossed to pin 6.

Thin Coaxial Cable (10Base2)

Thinnet networks, which use coaxial cable, connect in a daisy-chain configuration. A "T" connection with a male BNC connector is used to connect each device to the main cable. The maximum cable length for a network segment is 607 ft. (185 m). Repeaters, routers, and gateways may be used to increase the overall length of the network or for connections to other networks.

To connect your printer to the Ethernet Interface

1. Turn off the printer.

2. Connect the printer to the appropriate port for the cable used on your network.

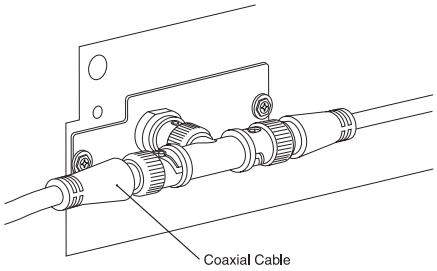

Fig. 2.31 Connect to the UTP Port

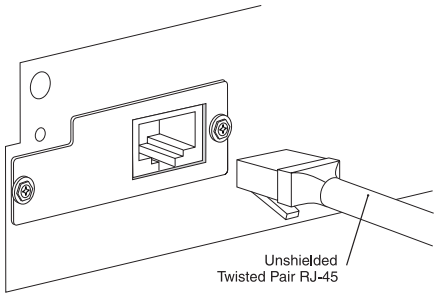

Fig. 2.32 Connect to the Coaxial Port

Before using your printer, set it up for your network environment and configure the Ethernet interface. See chapter 5 for details.

Connecting the Power Cord

1. Make sure the printer's power switch is off (the O is pressed in).
2. Connect the power cable's female connector to the back of the printer and the male connector to a standard electrical outlet (fig. 2.33).

Warning: Plug the printer into a dedicated, properly grounded AC outlet. Do not use an extension cord. Use a surge protected outlet to help prevent power source fluctuations from damaging your printer.

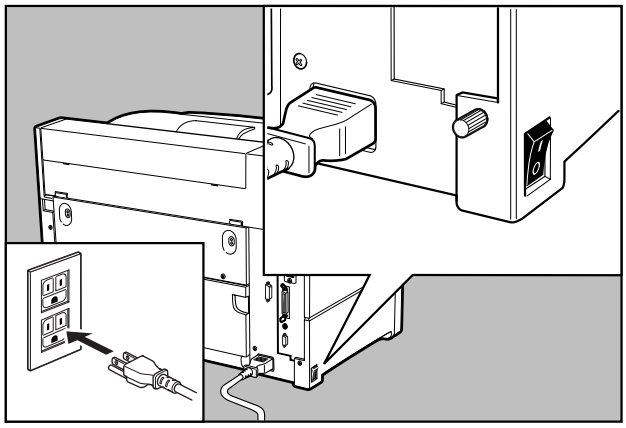

Fig. 2.33 Connect the Power Cord to the Printer

Warning: Never use a power cord that is damaged. Check the cord and plug monthly and replace immediately if you find any damage.

Turning the Printer On

Press the | on the power switch to turn on the printer (fig. 2.34).

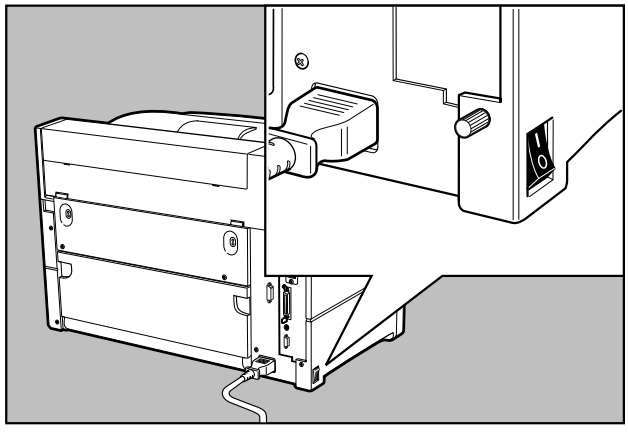

Fig. 2.34 Turn the Printer On

Printer initialization takes approximately 60 seconds. When `READY/IDLE` displays, the printer is ready to accept print jobs.

Note: Due to movement during shipping, XANTÉ recommends that you calibrate your printer after setup. For procedures, see "Accurate Calibration Technology (X-ACT)" in chapter 3 (Macintosh) or 4 (PC).

Following initialization, a start-up page prints if that feature is enabled. This page lists the selected resolution, installed RAM, hard disk identities, page count, enabled interfaces, and network information. Review this page to be sure that the printer is properly configured. See "Start-up Page" in chapter 6 for details.

Turning the Printer Off

1. Verify that the READY/IDLE message displays.

2. Press the o on the power switch to turn off the printer (fig. 2.34).

Note: When the printer is turned off, job information in memory is lost.

◊ ◊ ◊

Chapter 3 - Macintosh Setup

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Introduction

This chapter describes the Macintosh setup procedures for your printer, including installation and configuration of the Adobe PostScript printer driver, your printer's PPD (PostScript Printer Description) file, XANTÉ Command Center, and the Adobe Downloader. The last section describes procedures using XANTÉ Command Center and Adobe Downloader.

Note: Before beginning this setup, you should be familiar with standard Macintosh procedures.

XANTÉ Utilities CD-ROM

This section describes Macintosh files and folders on the XANTÉ CD-ROM.

The **Acrobat** folder contains an Adobe Acrobat Reader 3.0 Installer and ReadMe-Reader file describing system requirements and use of Acrobat Reader 3.0. See "Adobe Acrobat Reader 3.0" later in this chapter.

The **App Drivers** folder contains printer drivers required by some Aldus products, QuarkXPress, and ScenicSoft Preps. See "App Drivers Folder" later in this chapter for details.

The **ATM 4.0.2** folder contains an installation program, a user guide, and an associated file for the Adobe Type Manager. To install, open the ATM 4.0.2 folder and double-click the installation icon. Use Adobe Reader 3.0 to view and to print the guide.

The **Downloads** folder contains PostScript files that can be downloaded to your printer. See the Overview.PDF file in the CD-ROM's Downloads folder and "Downloads Folder" later in this chapter.

The **NetPeeks** folder contains self-extracting files for two network utility programs and associated documentation. Use EtherHelp 3.1 and LocalHelp 2.0 to capture packets on an Ethernet network or on a LocalTalk network respectively. Double-click on each icon to install that utility on your Macintosh. Read all documentation installed with the software before using these programs.

The **PostScript 3 Fonts** folder contains an installation program and screen fonts used on XANTÉ's PostScript 3 printers for display on Macintosh systems.

Note: Do not overload the Macintosh OS Fonts folder. On Macintosh operating systems prior to 8.0, you have to remove some of these fonts; these system Font folders can contain no more than 128 fonts.

The **Printer Descriptions** folder contains PPD (PostScript Printer Description) files for XANTÉ printers which provide software applications access to printer specific features.

The **Printer Drivers** folder contains Adobe PostScript drivers, and their installation programs for Roman font printers. See "XInstaller" and "Adobe PostScript Printer Drivers" later in this chapter and Readme.pdf on the CD-ROM to load these drivers.

The **Product Manuals** folder contains PDF files of some XANTÉ printer manuals. Use Adobe Acrobat Reader 3.0 to view on screen or print these manuals.

Read1st.txt describes Adobe Acrobat Reader 3.0 installation.

Readme.PDF summarizes the XANTÉ Utilities (Macintosh). Open this file using Acrobat Reader 3.0.

The **Screen Fonts** folder contains fonts used on XANTÉ's PostScript Level 2 printers for display on Macintosh screens. If you do not have these fonts, copy them into the System: Fonts folder on your Macintosh.

The **XANTÉ Utilities** folder contains XANTÉ Command Center, Adobe Downloader, a Downloader readme file, and the XD-1 (densitometer) software. See “XInstaller,” “XANTÉ Command Center,” “Adobe Downloader,” and “Calibration with a Densitometer (Gamma)” later in this chapter to load and ;use these files.

XInstaller is an installation program for XANTÉ Command Center, Adobe Downloader, your printer’s PostScript PPDs, and the appropriate PDF (Printer Description File) for QuarkXPress (if it is installed on your system), and the XD-1 software. See “XInstaller” later in this chapter. Always check the CD-ROM Readme files before printing.

Adobe Acrobat Reader 3.0

XANTÉ Utilities CD-ROM documentation is in Adobe Acrobat Portable Document Format (PDF). To install Adobe Acrobat Reader 3.0

1. Insert the XANTÉ Utilities CD-ROM into your Macintosh.
2. Double-click the XANTÉ Utilities 4.0 icon; then, double-click the Acrobat icon.
3. Check the ReadMe-Reader file; then, double-click the Reader 3.0 Installer icon to install Acrobat Reader 3.0.

XInstaller

Use XInstaller to load XANTÉ Utilities, your printer’s PPD, and your printer’s QuarkXPress PDF (if QuarkXPress is installed on your system), and to launch the AdobePS 8.6 driver installer.

1. Insert the XANTÉ Utilities CD-ROM. Double-click the XANTÉ Utilities CD icon; then, double-click the XInstaller icon.
2. Click Continue.

3. Read the welcome note; then, click Continue. The XInstaller window appears (fig. 3.1).

Fig. 3.1 The XInstaller Window

4. Select either XANTÉ Utilities to install only the utilities or select the appropriate PPD(s) for your printer(s) and the utilities will be included during installation; then, click Install (or stop installation by clicking Quit).

   - XANTÉ Utilities installs Adobe Downloader, XANTÉ Command Center, and the XD-1 software for Accel-a-Writer, PlateMaker, and ScreenWriter printers.
   - Individual printer options install Adobe Downloader, XANTÉ Command Center, PPD(s), and QuarkXPress PDF(s) (if necessary) for selected printers and launch the AdobePS printer driver installation.
   - If necessary, change the installation destination disk or folder for the files in the Install Location box.

5. Select Quit and go to the appropriate section listed below after the utility programs, PPD(s), and PDF(s) are installed.

   - If you chose only to install the XANTÉ utilities, go to "Adobe PostScript Printer Drivers" later in this chapter to load the printer driver and your printer's PPD manually.

- If you chose one or more individual printers, go to step 6 to proceed with the AdobePS installation.

6. Click Continue in the AdobePS introduction screen.

   Note: On most systems, the AdobePS 8.6 program automatically launches unless this version is installed already. If not, you can open it manually by double-clicking Adobe 8.6 Installer in the Printer Drivers:AdobePS 8.6 folder.

7. Read the license agreement and select Continue (or Accept) to bring up the AdobePS Installer window (fig. 3.2).

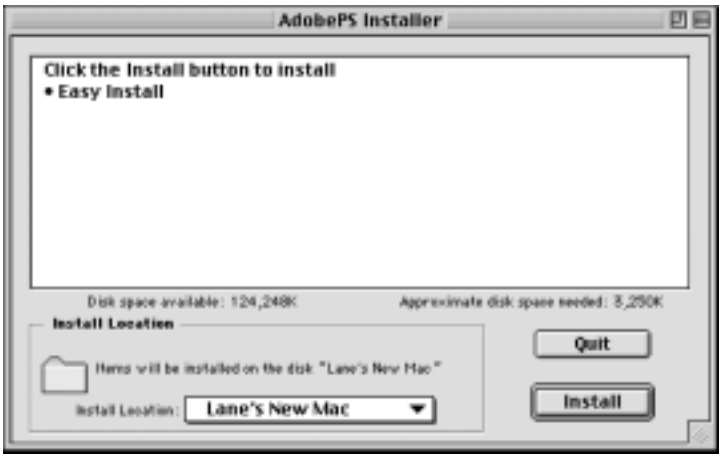

Fig. 3.2 AdobePS Installer Window

8. Change the destination disk (if necessary) for the driver in the Install Location box; then, click Install and follow instructions. A message window appears when installation is complete.

9. Click Restart. After the restart, finish setup following procedures in “Configuring the PPD” and “Configuring the Printer” later in this chapter.

Adobe PostScript Printer Drivers

The XANTÉ CD-ROM contains the Adobe PSPrinter drivers and printer PPDs. Before using your printer, install and configure your printer's Adobe PostScript printer driver and PPD.

Selecting the Adobe PostScript Printer Driver

Select the driver that best fits your needs and system configuration. If the chosen driver is not compatible with your system, try one of the other two drivers.

AdobePS 8.6

The AdobePS 8.6 driver requires the following system setup:

- Macintosh running System 7.6.1 or later (AdobePS 8.6 does not run on Macintosh 128K, 512K, or 512Ke computers)
- At least 4 MB of memory
- At least 2.1 MB of hard disk space plus the space required for the PPDs (each PPD is approximately 75 K)
- Apple ColorSync 2.0.1, if using the AdobePS ColorSync features (AdobePS does not support ColorSync 1.X)

Note: AdobePS is not compatible with Apple QuickDraw GX.

AdobePS 8.6 provides

- Adobe PostScript 3 and Adobe PostScript Level 2 support
- Full ColorSync 2.1 support
- Simplified printer setup and printing interface
- Ability to change printers from the Print dialog box
- Collation to print multiple document copies as opposed to multiple groups of the same page
- Reverse order printing to control the order in which the document pages are printed

- Poster printing of enlarged pages on multiple sheets that can be combined to create a poster
- Manual duplexing to split a print job into two segments: one for printing one side of the document; the second to print the other side
- Booklet printing to create brochure-like printouts

AdobePS 8.5.1

The AdobePS 8.5.1 printer driver requires the following system setup:

- Macintosh running System 7.1 or later (AdobePS does not run on the Macintosh 128K, 512K, or 512Ke computers)
- At least 4 MB of memory
- At least 2 MB of hard disk space plus the space required for the PPDs
- Chooser version 7.3 or later (supplied with the PSPrinter installation)

AdobePS 8.5.1 provides

- Adobe PostScript 3 and Adobe PostScript Level 2 support
- Full ColorSync 2.1 support
- Simplified printer setup and printing interface
- Ability to change printers from the Print dialog box
- Single-pass foreground printing for faster printing of large or complex documents

Adobe PSPrinter 8.3.1

The Adobe PSPrinter driver requires the following system setup:

- Macintosh running System 7 or later (PSPrinter does not run on the Macintosh 128K, 512K, or 512Ke computers)
- At least 4 MB of memory

- At least 700 K of hard disk space and space required for the PPDs
- Chooser version 7.3 or later (supplied with the PSPrinter installation)

PSPrinter 8.3.1 provides

- Adobe PostScript Level 2 support
- Full ColorSync 2.0 support
- Improved speed when printing JPEG compressed images
- Ability to save print options for subsequent jobs

AdobePS 8.6

Following installation of the XANTÉ Utilities and your printer's PPD, AdobePS launches automatically. AdobePS also can be launched manually from the Printer Drivers: AdobePS 8.6 folder.

The AdobePS installation program loads AdobePS, and AdobePS Readme file, an AdobePS driver Custom Page extension into the Printer Descriptions folder, and other files required for the Adobe PostScript printer diver. It does not load PPD files automatically. Installation overwrites any earlier AdobePS version but will not overwrite other printer drivers. Check the Readme First file in the AdobePS 8.6 folder before beginning driver installation.

Installing AdobePS 8.6

1. Insert the XANTÉ Utilities CD-ROM into your Macintosh.
2. Double-click the XANTÉ Utilities 4.X icon.
3. Double-click the AdobePS Installer in the Printer Drivers: AdobePS 8.6 folder.
4. Follow steps 6 through 9 in "XInstaller" earlier in this chapter; after your Macintosh restarts, install your printer's PPD (see the next section).

Installing the PPD for AdobePS 8.6

1. Insert the XANTÉ Utilities CD-ROM into your Macintosh.
2. Double-click the XANTÉ Utilities 4.X icon.
3. Select your printer's PPD in the Printer Descriptions folder.
4. Drag the PPD to the System Folder: Extensions: Printer Descriptions folder on you Macintosh.

The AdobePS printer driver and your printer's PPD are installed. See "Configuring the PPD" later in this chapter to complete the driver setup.

AdobePS 8.5.1

Following the installation of XANTÉ Utilities and your printer's PPD, AdobePS 8.5.1 needs to be launched manually from the Printer Drivers folder.

The AdobePS installation program loads AdobePS, an AdobePS Readme file, an AdobePS driver Custom Page extension into the Printer Descriptions folder, and other files required for the Adobe PostScript printer driver. It does not load PPD files automatically. Installation overwrites any earlier AdobePS version but will not overwrite other printer drivers. Check the appropriate language folder's Readme First file in the AdobePS 8.5.1 folder before beginning driver installation.

Installing AdobePS 8.5.1

1. Insert the XANTÉ Utilities CD-ROM into you Macintosh.
2. Double-click the XANTÉ Utilities 4.X icon.
3. Double-click the AdobePS Installer icon in the Printer Drivers: AdobePS 8.5.1: US English (or appropriate language) folder.

4. Follow steps 6 through 9 in “XInstaller” earlier in this chapter; then, after your Macintosh restarts, install the PPD (see the next section).

Installing the PPD for AdobePS 8.5.1

1. Insert the XANTÉ Utilities CD-ROM into your Macintosh.
2. Double-click the XANTÉ Utilities 4.X icon.
3. Select your printer’s PPD in the Printer Descriptions folder.
4. Drag the PPD to the System Folder: Extensions: Printer Descriptions folder on your Macintosh.

The AdobePS printer driver and your printer’s PPD are installed. See “Configuring the PPD” later in this chapter to complete the driver setup.

PSPrinter 8.3.1

The PSPrinter installation program loads PSPrinter 8.3.1, Chooser version 7.3 (if necessary), the PSPrinter Read Me, and the latest PPDs. It overwrites any earlier PSPrinter version but will not overwrite other printer drivers.

Installing PSPrinter 8.3.1 and the PPD

1. Insert the XANTÉ Utilities CD-ROM into your Macintosh.
2. Double-click the XANTÉ Utilities 4.X icon.
3. Go to the Printer Drivers: PSPrinter 8.3.1: US English (or appropriate language) folder and double-click the PSPrinter Install icon.
4. Click OK in the Adobe Printer Driver entry window. The PSPrinter Installation window appears.

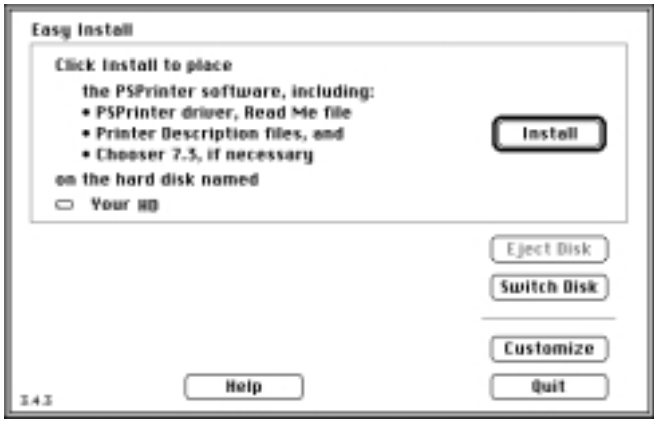

Fig. 3.3 PSPrinter Installation Window

5. Click Install to load the files listed in the Easy Install box. To load only specific components, click Customize. Select the files to load; then, click Install.

6. Read the license agreement; then, select Accept to bring up the installation screen (or select Decline to terminate installation).

7. Follow instructions on screen to complete installation.

8. Read the Congratulations box; then click OK.

9. Click Quit to close the installation program.

The Adobe PSPrinter driver and your printer's PPD are installed. Use the procedure in "Configuring the PPD" later in this chapter to complete driver setup.

PSPrinter 8.3 User Guide

Each language directory in the PSPrinter 8.3 folder has a user guide (covering installation and use). Print the guide (less than 50 pages) using the Adobe Downloader's File: Download PostScript File or XANTÉ Command Center's General: Download PostScript File option.

Mac Watermark Plug-in Folder

Each language directory in the PSPrinter 8.3 folder has a Mac Watermark Plug-in folder. This folder contains the Adobe PSPrinter 8.3 Watermark plug-in for the Macintosh and a user guide. These files allow you to customize your output with underlying watermarks.

The plug-in requires the following system setup:

- PSPrinter 8.3.1 (does not work with AdobePS 8.5.1)
- Macintosh running System 7.1 or later
- 100 K of available disk space for the plug-in, preferences, and Watermarks folder

The user guide (less than 10 page SimpleText file) describes system requirements and plug-in installation. To print this guide, double-click WM UserGuide; then, select File: Print.

Configuring the PPD

1. Select Chooser from the Apple menu. The Chooser window appears (fig. 3.4).

2. Select AdobePS or PSPrinter from the box on the left (top left in a network environment); a list of available printers appears to the right.

   Note: If the printer does not appear in the list, verify that
   —the printer is on and cable connections are secure
   —LocalTalk or EtherTalk (depending on your setup) is enabled on the printer front panel
   —the correct protocol (AppleTalk or EtherTalk) is selected on the front panel
   —your Macintosh is setup for LocalTalk or EtherTalk in the AppleTalk Control panel.

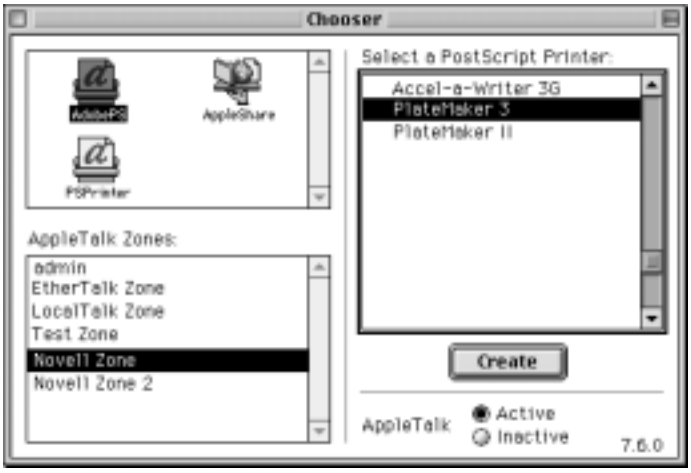

Fig. 3.4 AdobePS Chooser Window

3. Highlight your printer and double-click. If the setup reminder dialog box appears, click OK. The Adobe PostScript printer driver automatically selects and configures the correct PPD for your printer.

   Note: If multiple PPDs are installed for your printer, select the correct PPD when prompted.

4. If you are using PSPrinter, select Off for Background printing (to maximize processing performance) when the Chooser window reappears. This option does not appear if the AdobePS driver is selected.

5. Close the Chooser window to complete the PPD setup unless the following window appears (fig. 3.5). If this window appears, continue with step 6.

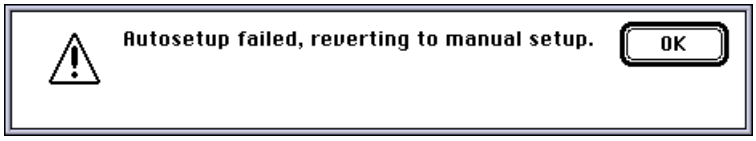

Fig. 3.5 Autosetup Failed Message

6. Click OK in the Autosetup failed dialog box; the Installable Options window appears (fig. 3.6).

Fig. 3.6 Installable Options Window

7. Configure the printer's options.

   a. Select Installed for the upgrades installed on your printer.

      Note: If your printer has two cassette trays, select Upper Optional Tray: Installed. If it has three cassettes, select Upper Optional Tray: Installed and Lower Optional Tray: Installed.

   b. Select True for Spooler Enabled to activate the Save Spooled Job menu in your application Print dialog box if your system has an optional internal hard disk.

      Note: This does not enable the Spooler on your printer. The Spooler must be enabled on your printer using either the front panel Interface menus or XANTÉ Command Center. See "Spooler" in chapter 6 and "Spooler" later in this chapter for details.

   c. Select the amount of RAM installed on your printer.

8. Click OK twice. The Chooser window reappears. Then, close this window.

Note: When you add a printer from the network, go through either the Auto Setup or manual setup procedure to ensure that the printer is recognized by the network.

Configuring the Printer

If necessary, configure the printer's communication interface using the front panel. See Chapter 6, "Configuration," for details.

1. Select the SETUP:I/F menu.
2. Select the menu for the printer interface connected to your computer (LTALK or ETALK).
3. Select the ENABLE menu. Then, select YES.
4. Press the Reset key until READY/IDLE appears.
5. Verify the setup.
    a. Make sure your Macintosh is connected to the printer with a LocalTalk or Ethernet cable.
    b. Double-click the XANTÉ Command Center icon in the XANTÉ Utilities folder.
    c. Choose General: Printer Status. A dialog box displays the current printer status.

        Note: If the status dialog box does not appear, check all cable connections and be sure the printer interface you are using is enabled on the printer.

    d. Click OK in the dialog box. Choose File: Quit to close Command Center.

App Drivers Folder

Some Aldus PageMaker and FreeHand versions, QuarkXPress, and ScenicSoft Preps applications require special files in addition to the standard PPD supplied for your printer. These files are in the CD-ROM's App Drivers folder. See "Application Notes and Page Design" in appendix B for additional information.

Note: Some advanced XANTÉ printer features may not be available when using older application versions. Also, APD (Aldus Printer Description) files for PageMaker version 4.01 and earlier and FreeHand versions 2.02 and earlier are available from XANTÉ Technical Support.

PageMaker 5 PPD Folder

The PageMaker 5 PPD folder contains PPDs for Aldus PageMaker versions 4.2 to 5.0 and Aldus FreeHand versions 3.0 and 3.1. To install these PPDs

1. Load and configure the Adobe PostScript printer driver and your printer's PPD following instructions in "Adobe PostScript Printer Drivers" earlier in this chapter.

2. Copy your printer's PPD from the CD-ROM's App Drivers: PageMaker 5 PPD folder to the System: Aldus PPD folder on your Macintosh.

   Note: The PPD's name indicates the XANTÉ printer it supports. A "W" after the name indicates the PPD is for use on printers with the wide format option.

3. Check your application documentation for instructions on selecting and using the PPD.

QuarkXPress PDF Folder

The APP Drivers: QuarkXPress PDF folder contain PDFs (Printer Description Files) for each XANTÉ printer. QuarkXPress versions 3.3.X and earlier require these files in addition to the PPD to ensure the highest quality output from your printer and QuarkXPress.

XInstaller loads the QuarkXPress PDF if you choose an individual printer installation. To load these PDFs manually

1. Load and configure the Adobe PostScript printer driver and your printer's PPD following instructions in "Adobe PostScript Printer Drivers" earlier in this chapter.

2. Copy your printer's PDF from the CD-ROM's App Drivers: QuarkXPress PDF folder to the appropriate folder on your Macintosh.

    - For versions 3.3.X and earlier, copy the XANTÉ 3-Series Printer PDF to the QuarkXPress application/PDF folder.

    Note: The PDF's name indicates the XANTÉ printer it supports. A "W" after the PDF name indicates it is for a printer with the wide format option.

QuarkXPress 4.X uses your printer's PPD file (it does not need a PDF). To load a PPD file manually, copy your printer's PPDs from the CD-ROM's Printer Descriptions folder to the System Folder: Extensions: Printer Descriptions folder on your Macintosh.

Note: Remove "Balloon Help" from the Quark folder for QuarkXPress 3.3.2.

See the QuarkXPress section in appendix B for additional information.

ScenicSoft Preps

The App Drivers: ScenicSoft Preps folder contains PPD and PDX files for XANTÉ Accel-a-Writer 3 series, PlateMaker 3, and ScreenWriter 3 printers. XInstaller installs these files automatically if you have the ScenicSoft Preps application on your system.

Downloads Folder

The Downloads folder contains Adobe PostScript files and Overview.pdf, which describes these files. Download the PostScript files to your printer using the Adobe Downloader or XANTÉ Command Center.

CLEAN.PS prints cleaning instructions for the Accel-a-Writer 8100, 8200, and PlateMaker II.

FONTS.PS3 prints a list of Adobe PostScript 3 fonts resident on XANTÉ PostScript 3 printers.

Fontsamp.ps3 prints samples of Adobe PostScript 3 fonts resident on XANTÉ PostScript 3 printers.

FTP.PS prints instructions for uploading and downloading files to XANTÉ's FTP (File Transfer Protocol) site.

INITDSK*X*.PS files are used to initialize hard disks attached to or installed in your printer.

- Numbered files initialize the SCSI disk with the same device number (INITDSK1.PS initializes SCSI disk #1, INITDSK2.PS initializes SCSI disk #2, etc.) on the printer.
- INITDSKA.PS and INITDSKB.PS initialize the internal IDE drive of the same designation (the A or B disk) on the printer.
- INITDSKS.PS initializes *all SCSI and IDE drives* attached to the printer.

You must initialize a hard disk before it can be used to store downloaded fonts or to set up a spooling queue. Initializing a disk erases all information stored on that disk.

NOVELL34.PS prints instructions for setting up a XANTÉ printer on a Novell network.

PARMDUMP.PS prints a list of the settings for communication devices currently configured for your printer.

SETZONE.PS allows you to set your printer's EtherTalk zone name. Open the file in a text editor, such as SimpleText, and change "name of zone" in the parentheses to the name of your EtherTalk zone. Save the file, and download it to your printer. Restart your printer to make the change effective.

SET_IP.PS allows you to set your printer's IP address. Open the file in a text editor, such as SimpleText, and change the IP address in the parentheses to your printer's IP address. Save and download the file to your printer. Restart the printer to make the change effective.

STARTPG.OFF disables the printer's start-up page feature, preventing the page from printing automatically each time the printer is restarted (see "Start-up Page" in chapter 6).

STARTPG.ON enables the printer's start-up page feature, causing the page to print automatically each time the printer is restarted (see "Start-up Page" in chapter 6).

SYSPARM.PS prints a list of current system parameters.

XANTÉ Command Center

XANTÉ Command Center allows you to check and control many printer functions from your Macintosh. Use XInstaller to install Command Center or copy the program from the CD-ROM's XANTÉ Utilities: Laser Printers folder to a folder on your Macintosh.

Features and options are for all printer models unless otherwise indicated. Also, File and Edit menus are similar to other Macintosh applications and are not described in detail in this section.

General Menu

The General menu allows you to communicate with the printer to perform margin and line length calibrations, get printer settings and status, control printer spooling, download PostScript files to the printer, and change some printer default settings (fig. 3.7).

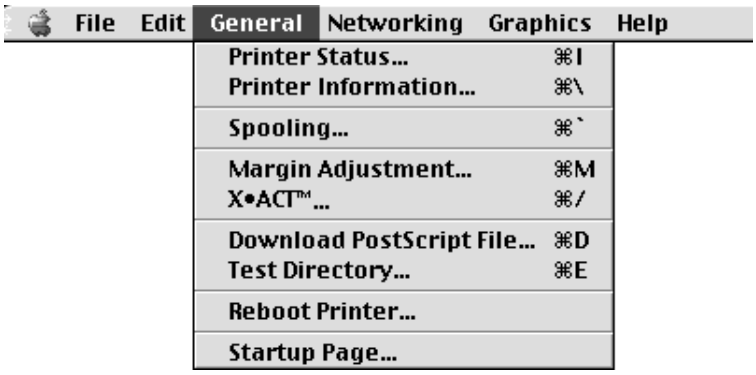

Fig. 3.7 General Menu

Printer Status

This option provides current printer status information on screen. For example, the status may indicate that the printer is idle (ready to receive a job). If the printer is receiving data, the status message lists the interface source; if the printer is processing a job, the status message lists the user name, document name, and interface source.

Printer Information

This option allows you to send current printer settings to the screen or the printer. These include printer configuration, storage devices on the printer, and network configuration details.

Spooling
This option allows you to enable and control printer hard drive spooling. Spooling frees up the communication channel between your Macintosh and printer which permits your computer to return to other processing quickly. Spooling can be enabled for each interface independently using this menu or the printer's front panel Interface menus. See "Spooler" later in this chapter.

Margin Adjustment
This option (3G) allows you to adjust the printer margin. Printer margin refers to the imageable area, not to margin settings for a document in an application. The imageable area is the portion of a page on which the printer can lay down toner. Margin Adjustment allows you to adjust the position of this imageable area. See "Printer Margin Adjustment" later in this chapter for details.

X-ACT
This option (3G) allows you to calibrate printer line lengths to a standard and to correct inaccuracies in printing width, height, skew, and angle. See "Accurate Calibration Technology (X-ACT)" later in this chapter for details.

Download PostScript File
This option allows you to download PostScript files to your printer.

Test Directory
This option is not valid for laser printers.

Reboot Printer
This option allows you to reboot the printer from your computer. This reboot causes the printer to reinitialize.

Startup Page
This option allows you to enable or disable automatic start-up page printing after your printer goes through initialization. The Print One option allows you to print a start-up page regardless of whether the feature is enabled. The factory default is to print the start-up page after initialization.

See “Downloads Folder” earlier in this chapter and “Start-up Page” in chapter 6 for other methods to control the start-up page feature.

Networking Menu

The Networking menu allows you to configure your printer’s Ethernet interface for Novell Print Server emulation, AppleTalk, and the TCP/IP communication (fig. 3.8). Only the System Administrator should use these options. See chapter 5, “Ethernet Setup” for details.

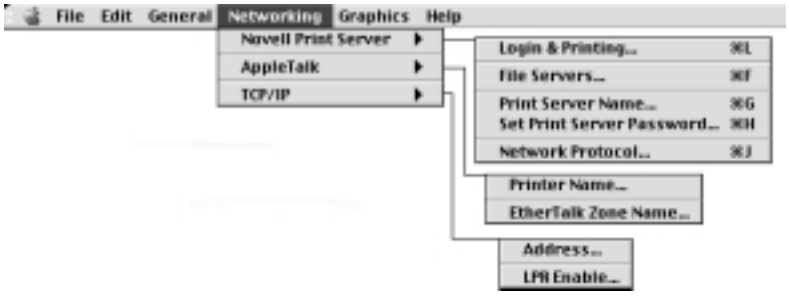

Fig. 3.8 Networking Menu

Novell Print Server

Novell Print Server options allow you to configure the Novell Print Server emulation on your printer’s Ethernet interface.

- Login & Printing—allows you to enable your printer to login to and accept print jobs from a designated Novell file server.
- File Servers—allows you to specify up to four Novell file servers for your printer to poll for print jobs.
- Print Server Name—allows you to specify the name your printer will use to login to the Novell file server(s).
- Set Print Server Password—allows you to specify the password required for your printer to login to the Novell file server(s).
- Network Protocol—allows you to configure the Novell Print Server emulation for your network protocol. The printer’s front panel Novell Print Server menu is another way to set network protocol. See “Interface Control” in chapter 6.

AppleTalk

The AppleTalk menu allows you to configure the AppleTalk protocol on your printer's Ethernet interface.

- Printer Name—allows you to set the name your printer advertises on the network.
- EtherTalk Zone Name—allows you to change your printer's default zone assigned by the network router.

TCP/IP

The TCP/IP menu allows you to enable the TCP/IP protocol and set the TCP/IP address on your printer's Ethernet interface.

- Address—allows you to change your printer's default TCP/IP address to agree with your network TCP/IP addressing system.
- LPR Enable—allows you to enable or disable the Line Printer protocol on your printer's Ethernet interface. The printer's front panel Line Printer menu is another way to enable or disable LPR. See "Interface Control" in chapter 6.

Graphics Menu

The Graphics menu allows you to create custom gamma curves to calibrate your printer's grayscale output for specific ink, media, and environmental conditions (fig. 3.9).

Fig. 3.9 Graphics Menu

CRD Directories

This menu is not for use with laser printers.

Linearization

This menu (3G) allows you to create and download custom curves to your printer. These curves can be selected for a specific job from the Print dialog box or set as the default from the printer's front panel. See "Calibration with a Densitometer (Gamma)" later in this chapter.

Adobe Downloader

Use Adobe Downloader to load and manage font files on your printer's hard drive and to send PostScript files to your printer.

Fig. 3.10 Adobe Downloader Menu

File Menu

The File menu allows you to download fonts and PostScript files to the printer and to quit Adobe Downloader.

Download Fonts

This menu allows you to download fonts to an optional hard disk on your printer or to printer memory. Fonts downloaded to your printer are considered resident, which means applications do not have to bundle these fonts with print jobs. Fonts downloaded to printer memory only remain during the current power cycle. Fonts downloaded to an optional hard disk survive a power cycle. See "Downloaded Fonts" later in this chapter for details.

Download PostScript File

This option allows you to select a PostScript file on your Macintosh and send it to the printer. XANTÉ Command Center's General menu also has this option.

Special Menu

The Special menu allows you to check printer status and manage fonts downloaded to your printer.

Printer Status

This option allows you to check current printer status. XANTÉ Command Center's General menu also has this option.

Printer Font Directory

The Printer Font Directory provides access to fonts downloaded to the printer. Using this menu, you can print a list or view (on screen) all fonts downloaded to printer ROM, memory, or an optional hard disk. Delete allows you to remove fonts that have been downloaded to memory or the optional hard disk. You cannot remove fonts from ROM. See "Downloaded Fonts" later in this chapter for details.

Other Special Menu Options

We recommend that you use XANTÉ Command Center's General: Reboot Printer option instead of the Special menu's Clear Font Cache or Restart Printer options. See the PostScript Reference Language Manual about using the Use Different Password option.

Procedures

This section covers special procedures using XANTÉ Command Center and Adobe Downloader.

Spooler

If your printer has an optional hard drive, you can use the spooler to place print jobs into a queue on that drive. This reduces return to application time by freeing the communications channel between the computer and printer. The Save Spooled Job feature allows you to save up to 250 print jobs on the hard drive for reprinting later. See "Spooler" in chapter 6 for details.

Spooling can be enabled for each interface independently through XANTÉ Command Center or the printer's front panel Interface menus. Command Center also allows you to manage jobs in the spooler print queue.

Using the Front Panel

To enable the Spooler using the front panel Spool menu

1. Select the Interface (SETUP:I/F) menu.
2. Select the printer interface (SERIAL, PARALLEL, ETALK, LPR, NETBEUI, or NVL PSRV) that you use to send files.
3. Select the Spool menu; then, select YES.
4. Press the On Line key to return the printer to the READY/IDLE state.

Using XANTÉ Command Center

To enable and control spooling on the printer's hard drive using XANTÉ Command Center

1. Open XANTÉ Command Center; then, choose General: Spooling. The Spooling window appears (fig. 3.11).

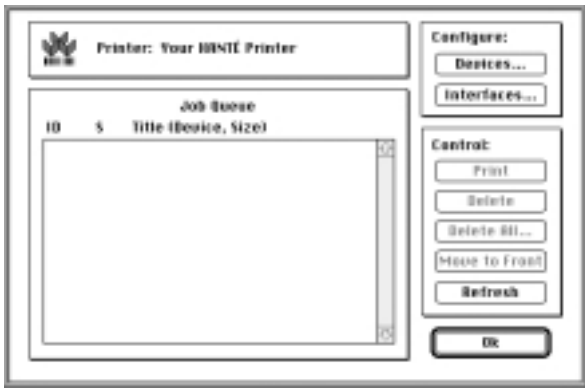

Fig. 3.11 Spooling Window

2. Select Devices from the Configure box. The Select Spool Device window appears (fig. 3.12).

Fig. 3.12 Select Spool Device Window

3. Select the disk to use to store the spooled jobs or select NONE to disable spooling; then, click Ok. The Spooling Window reappears (fig. 3.11).

4. Select Interfaces from the Configure box. The Select I/O Interfaces to Spool window appears (fig. 3.13).

Fig. 3.13 Select I/O Interfaces to Spool Window

5. Select the interface that you use to send files to the printer; then, click Ok. The Spooling window reappears (fig. 3.11).

6. Click Ok. The Spooling Window closes. Choose File: Quit to close Command Center.

To manage jobs in the spooler's job queue

The spooler's job queue can store up to 250 jobs. Jobs sent with the Save Spooled Job option set to True in the Print dialog box are retained indefinitely in the queue. A saved job can be reprinted quickly from the Spooling menu without reprocessing the file through an application. See "The PPD" in chapter 6, for details.

1. Open XANTÉ Command Center; then choose General: Spooling. The Spooling window appears (fig. 3.14).

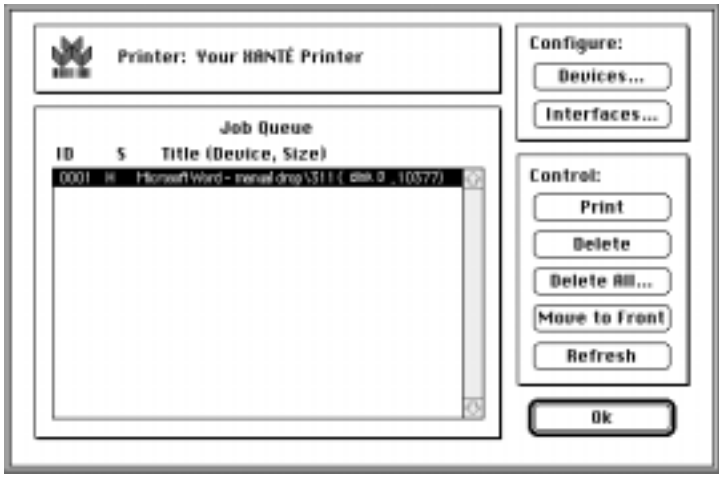

Fig. 3.14 Job Queue in the Spooling Window

The Job queue lists the ID, status, title, spool device, and file size of all jobs in the spooling queue. Job status can be W (waiting to be processed), P (currently processing), or H (already processed and held using the Save Spooled Job feature).

2. Use the Control buttons to manage the jobs in the queue.

Print	Prints the highlighted job
Delete	Deletes the highlighted job
Delete All	Deletes all jobs in the queue
Move to Front	Moves the highlighted job to the front of the queue
Refresh	Updates the screen with the current job queue

3. Click Ok. The Spooling window closes. Choose File: Quit to close Command Center.

Calibration with a Densitometer (Gamma)

Densitometer support (3G) allows you to use gamma curves to adjust your printer's performance to eliminate inconsistencies due to equipment age, different toners, press inks, and media, and environmental conditions.

The XD-1 (XANTÉ Densitometer), combined with XANTÉ Command Center software, measures grayscale output for calibration and proofing. This affordable, easy-to-use densitometer will be used in this manual for example purposes.

Seven standard curves are supplied with XANTÉ's Halftone Calibration Technology and you can create up to seven custom gamma curves. You can select any custom or standard gamma curves on a job by job basis using the front panel Gamma menu or the Print dialog box Gamma PPD option. See "Halftone Calibration Technology (Gamma)" in chapter 6 for details.

Gamma curves are created with XANTÉ Command Center and a densitometer using the following steps:

- Printing a Calibration Page
- Using the Densitometer
- Linearizing the Densitometer Data

Printing a Calibration Page

To begin calibrating your printer, print a calibration page to measure the printer's current performance as a basis for the calibration.

1. Open XANTÉ Command Center and choose Graphics: Linearization. The Linearization window appears (fig. 3.15).

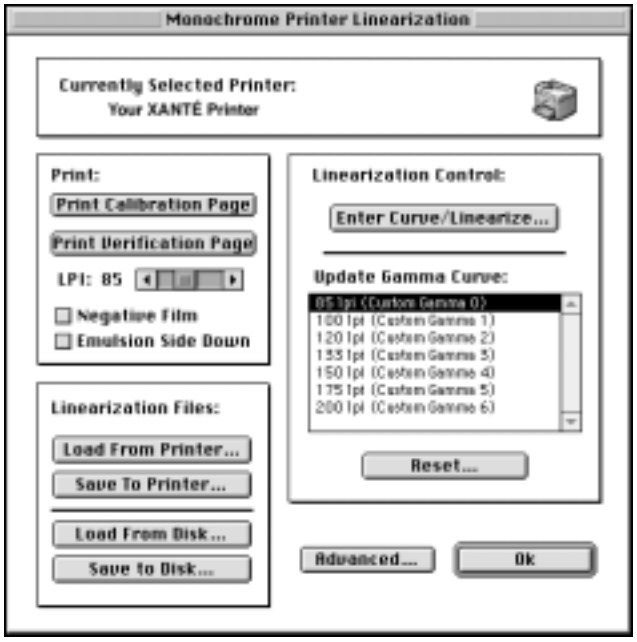

Fig. 3.15 Linearization Window

2. Change the Linearization window LPI setting in the Print box (fig. 3.15) to achieve 256 levels of gray for the resolution at which you are printing.

   Note: For 600 dpi, select 85 lpi; for 1200 dpi, select 106 lpi; for 2400 dpi, select 133 to 150 lpi. Any lpi may be used; measure the lpi that is to be used for final output.

3. Print a Calibration Page to measure the printer's current performance as a basis for the calibration. To do this use the following procedure:

Note: *Always* print the calibration page using the same media and toner or press ink as used for the final copy. When calibrating film media, you *must* select Man Feed using the Tray Select key and select the media size through the front panel MISC: MAN FEED menu. Universal is the largest size available in the front panel. If you have larger media, you need to cut it down to 13" x 18.5" (330 mm x 470 mm).

Also, when possible, calibrate from the final output. For example when calibrating for plates, take the plate to press and print. Then, measure the output from the press.

a. Select Negative Film to calibrate the printer if you are calibrating for negative output from your printer.

b. Select Emulsion Side Down if you want to print a mirror image.

Note: The printed calibration page will still look like a positive, but the patch (box) values will be reversed.

c. Select the custom Gamma Curve you want to update from the Update Gamma Curve list. This curve selection automatically updates the LPI option to match the lpi listed for the selected curve. To select a different lpi setting, use the LPI option and scroll to the desired setting.

Note: If you select a custom lpi for a listed curve, the lpi listed in front of the curve's name in the Update Gamma Curve box *does not* change to match the new lpi. In this case, you need to keep a record of the new lpi setting for that gamma curve.

d. Select the resolution which you will use to print the final output in the printer front panel MISC: DPI menu.

e. Click Print Calibration Page (fig. 3.15). The calibration page shows the printer's performance using no gamma curve correction (fig. 3.16).

Note: Print only one calibration page (using the Print Calibration Page button) at the beginning of the calibration process. Printing this page again later in the process resets the calibration, cancelling any linearization you have already done.

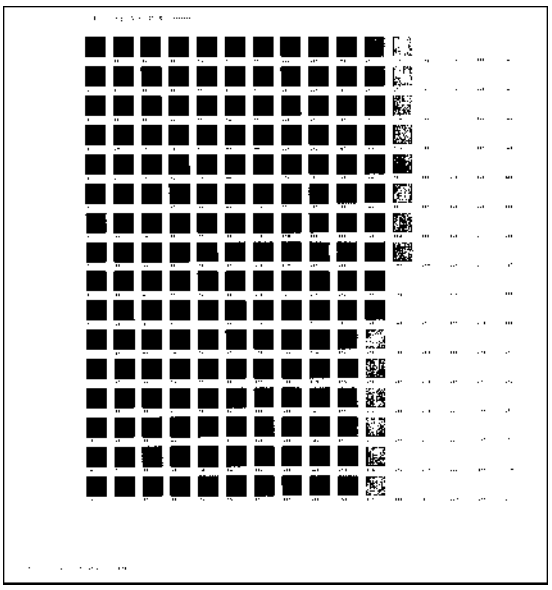

Fig. 3.16 Sample Calibration Page

Using the Densitometer

A densitometer uses a standard light source to measure the amount of light reflected from printer output. This measurement is compared to a standard and expressed as a percentage of gray.

The densitometer, like any other precision instrument, *must* be calibrated before each use. Refer to your densitometer's documentation for instructions on calibrating and using the densitometer.

After calibrating the densitometer, use it to get density measurements for the calibration page you printed.

Linearizing the Densitometer Data

Enter the densitometer measurements to calculate the adjustments necessary to correct printer performance to a linear standard.

1. Click Enter Curve/Linearize in the Linearization window (fig. 3.15). The Densitometer Data Entry window appears (fig. 3.17).

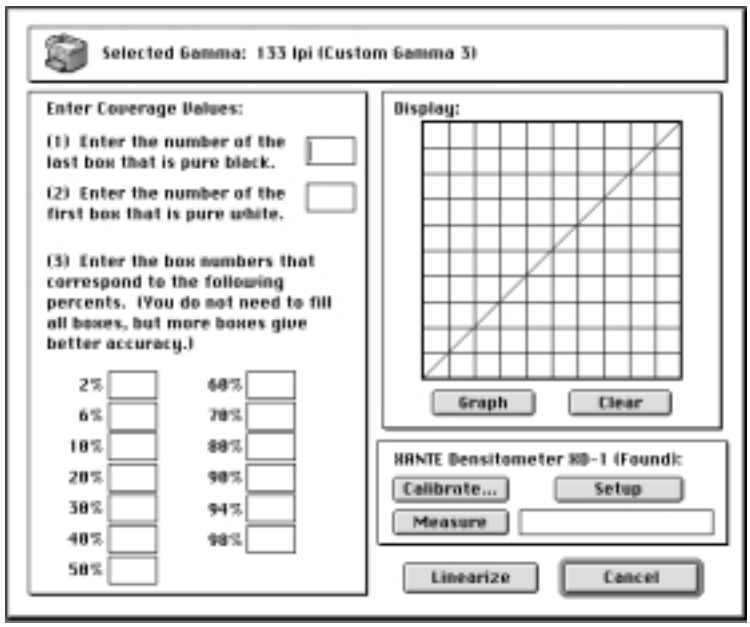

Fig. 3.17 Densitometer Data Entry Window

2. Measure individual patches on the calibration page by placing the page on a white background; then, center the densitometer's lens over the patch and either click the black button on top of the XD-1 or click the measure button on the Densitometer Data Entry window (fig. 3.17). The measurement appears in the box to the right of the Measure button.

3. Make sure to enter the solid black (1) and solid white (2) measurements first. Enter the number of the patch whose densitometer measurement most closely matches (within ± 2%) the corresponding percentage in the Enter Coverage Values section.

   For example, when you are reading for 2%, if the box labeled 7 measures 2%, enter the number 7 in the corresponding box.

   Note: The calibration page blocks are numbered from 0 to 255. You may have to check several blocks to find the one that most closely matches the percentage in the Densitometer Data Entry window.

   Also, it is not necessary to measure for each coverage value, but that is recommended to achieve more accurate results.

4. Click Graph to display a curve of your printer's linear curve.

5. Click Linearize to continue. The Linearization window reappears (3.15)

   Note: If you need to stop linearization (for example, to change the media type), you can click Cancel to stop.

6. Click Save to Disk (fig. 3.15) if you want to save the data file for future use. Then, specify a new file name and select a folder for saving the file. Click Save. Otherwise, skip to step 7.

7. Click OK. The Linearization window closes.

Note: To verify linearization, click the Print Verification Page button (3.16) before you close the Linearization window. When this page prints compare it to the original calibration page to verify the gamma correction; you should see an improvement in gray scale progression.

Advance Gamma Curve Control

If you are an expert user, you may want to adjust image lowlights, midtones, highlights and details in a gamma curve using the Advanced option in the Linearization window.

Note: You cannot see advanced window adjustments on screen. Unless you are an expert user, you *always* should make these adjustments thorough an application.

1. Select the gamma curve to update from Update Gamma Curve in the Linearization window.

2. Click Advanced. Then, use the appropriate scroll bars to make the adjustment and click Ok. The Linearization window reappears.

3. Click Enter Curve/Linearize to create a new curve and download it to your printer. The Densitometer Data Entry window appears (fig. 3.17).

4. Click Linearize. The new curve replaces the existing curve on your printer.

5. Click Ok. The Linearization window closes. Choose File: Quit to close Command Center.

Managing Custom Gamma Curves

You can retrieve custom gamma curves (that you created or downloaded using the densitometer and Command Center) from your printer and save them on your system. These files can be downloaded to the printer again as needed.

To manage custom gamma curves, open XANTÉ Command Center and select Graphics:Linearization. The Linearization window appears (fig. 3.15). Then use one of the following procedures to manage your custom gamma curve.

- To retrieve a custom gamma curve from the printer, click Load from printer.

- To retrieve a custom gamma curve saved to your system, click Load From Disk and select the file.

- To save a custom gamma curve to your Macintosh, retrieve it from the printer, and click Save to Disk.
- To save a custom gamma curve to your printer, retrieve it from your system; select the curve to be updated from the Update Transfer Curve list; and click Save to printer.

Resetting Custom Curve Defaults

To reset a custom gamma curve to the factory default (a copy of the standard Gamma 0 curve) or to reset all gamma curves to the factory defaults

1. Highlight the curve to change in Update Gamma Curve list in the Linearization window and click Reset (fig. 3.15). The Reset Curves window appears (fig. 3.18).

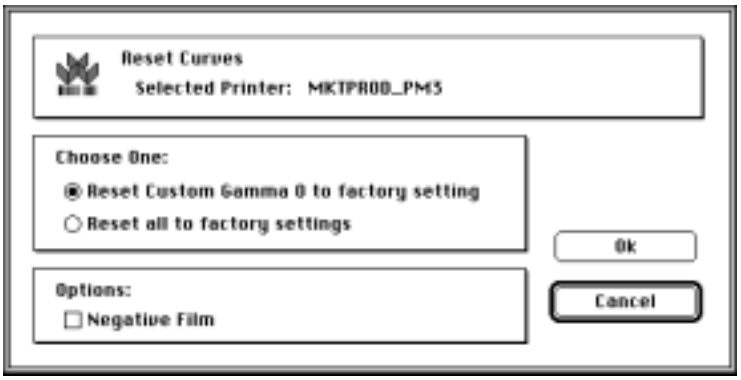

Fig. 3.18 Reset Curves Window

2. Choose Reset Custom Gamma *X* to factory setting (the *X* will be replaced by the number of the curve you highlighted in step 1) or choose Reset all to factory settings. Then, select Negative Film if the final printed output will be a negative print.

3. Click Ok. After the curve or curves are reset, the Linearization window reappears.

4. Click Ok. The Linearization window closes. Select File: Quit to close Command Center.

Accurate Calibration Technology (X-ACT)

Use XANTÉ's patented X-ACT (3G) feature to calibrate your printer in two ways, through the front panel MISC: XACT menu or through XANTÉ Command Center's More X-ACT menu.

Front Panel X-ACT

Your printer's front panel MISC: XACT menu allows you to make 1/2 mm line length adjustments using the following procedure.

Note: To use the front panel XACT, you need a metric ruler with 1/2 millimeter rule markings. Also, you *must* use the paper cassette, not the multipurpose feeder, when making X-ACT adjustments. The adjustments for one size media apply to every media size, so you do not have to make individual adjustments for each size.

1. Make sure the printer is on and idle. Then, make sure that media the size of your final output is loaded in the printer's paper cassette and the cassette is selected as the media source.

2. Press the Menu key until `SETUP: MISC` appears. Then, press the Enter key.

3. Press the Menu key until `MISC: XACT` appears. Then, press the Enter key.

4. Press the Menu key until `XACT TEST PAGE` appears. Then, press the Enter key. A page prints with 2 lines, Line A and Line B. The measurement listed by each line is the desired length for that line on that media size. In this example, Tabloid size 11" x 17" (257 mm x 431 mm) media is used. Line A should be 251.46 mm and Line B should 388.61 mm.

5. Measure Line A. Use the following procedures to adjust the printer for the correct line length.

    a. Note the amount Line A is over or under 251.46 mm.

    b. Press the Menu key until `LINE A` appears. Then, press the Enter key.

c. Press the Menu key until the amount which would most closely adjust the line to the desired length appears. Then, press the Enter key. For example, if Line A is 250.46 mm instead of 251.46 mm, select 1.00 mm to add one mm to make the line the correct length.

6. Measure Line B. Use the following procedures to adjust the printer for the correct line length.

   a. Note the amount Line B is over or under 388.61 mms.

   b. Press the Menu key until `LINE B` appears. Then, press the Enter key.

   c. Press the Menu key until the amount which would most closely adjust the line to the desired length appears. Then, press the Enter key. For example, if Line B is 389 mm instead of 388.61 mm as it should be, select -0.50 mm to shorten the line to 388.50.

7. Press the Reset key to return to the previous menu level. Then, press the Menu key until XACT: TEST PAGE reappears and press the Enter key to print a new test page.

8. Repeat steps 5 and 6 until the line measurements agree with the lengths listed on the test page.

9. Press the On Line key when the line lengths are correct. READY/IDLE appears in the window.

Now the printer's line lengths are calibrated correctly.

Command Center X-ACT

Use XANTÉ Command Center's X-ACT feature to calibrate printer line lengths and correct inaccuracies in printing width, height, skew, and angle.

Note: You must have XANTÉ Command Center and your printer's current PPD installed before you can use Command Center's X-ACT. You also need a 1/2 millimeter ruler and the printer needs to be connected locally with Ethernet.

1. Open XANTÉ Command Center if necessary; then, select General: X-ACT. The More X-ACT Calibration window appears (fig. 3.19).

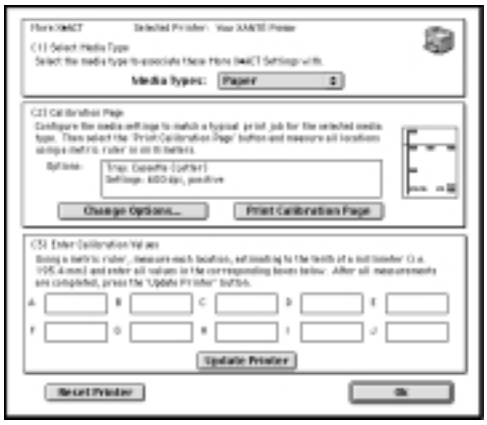

Fig. 3.19 More X-ACT Calibration Window

2. Make sure that the same type of media you will use for final printing is loaded in the printer.

3. Select a setting for the media type you are using from the Media Type drop-down menu (fig. 3.20).

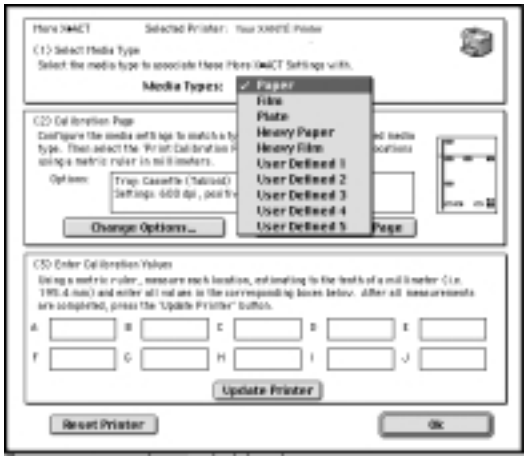

Fig. 3.20 Media Types Menu

Note: Each media type can have only one set of options. For example, if you calibrate for 8 1/2 x 11 (letter) paper, you can choose Paper as the media type. If you need to calibrate for 11 x 17 (tabloid) paper, you need to select another media type such as User-defined 1 so that the first calibration for letter size paper is not overwritten.

4. Check Options to make sure the paper (media) source and print settings are correct. If any of the settings are incorrect, click Change Options; when the More X-ACT Advanced Setup window appears (fig. 3.21), make the necessary changes.

Fig. 3.21 More X-ACT Advanced Setup Window

a. Under Paper Source, if you select Manual Feed, go to step 4.b; if not, skip to 4.c.

b. Under Manual Feed Options, if you are using standard size media, click Standard Paper Size and select the size from the drop-down menu. If you are using a custom size, click Custom Paper Size and enter the size and select the unit of measure (inch, millimeter, or centimeter).

c. Under Print Settings, select the resolution from the drop-down menu. Click the Negative Film box if you are printing negative output.

d. Click OK. The More X-ACT window reappears.

5. Click Print Calibration Page.

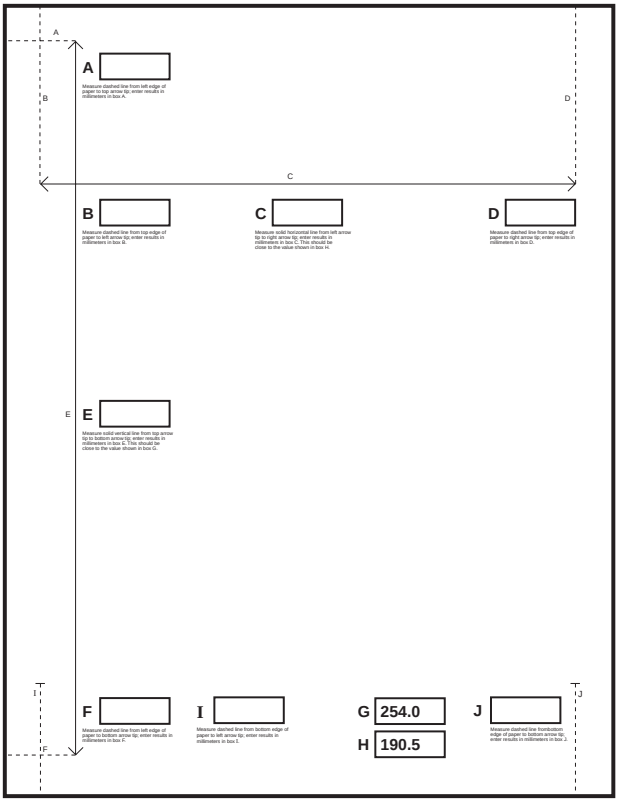

Fig. 22 X-ACT Calibration Page

6. Make the measurements indicated on the calibration page next to boxes A through F, I, and J, recording each measurement in its corresponding box on the calibration page. The values in boxes G and H are fixed values and do not require you to make any measurements.

7. Compare the following pairs:

A to F	For example:	A = 25	F = 25.5
B to D		B = 61	D = 61
C to H		C = 190	H = 190.5
E to G		E = 253	G = 254
I to J		I = 39	J = 39.5

   The numbers in each pair should be the same or within a 0.5 mm difference. If so, skip to step 11. If not (as in E and G in the example), continue to step 8.

8. Copy the recorded measurements in boxes A through F, I, and J and the fixed values in boxes G and H from the calibration page to the corresponding boxes in the Enter Calibration Values section of the More X-ACT window.

9. Click Update Printer. (Clicking this button sends the new calibration measurements to the printer so it can update.)

10. Repeat steps 5 through 9 until the measurements in the corresponding boxes are within .5 mm of each other.

    Note: Your application printer properties must match your calibration settings. For example, if you chose User-defined 1 as your media type in the More X-ACT calibration window for 11" x 17" (tabloid) paper, you must choose User-defined 1 as your Media Weight in your application printer properties when printing on 11" x 17" paper.

11. Click Ok to close the More X-ACT window.

Printer Margin Adjustment

Use Margin Adjustment (3G) to adjust the position of the imageable area on the media.

Note: Use the standard paper size (letter or A4) for your paper cassette with the Margin Adjustment function.

1. Open XANTÉ Command Center. Select General: Margin Adjustment. The Printer Margin Control window appears.

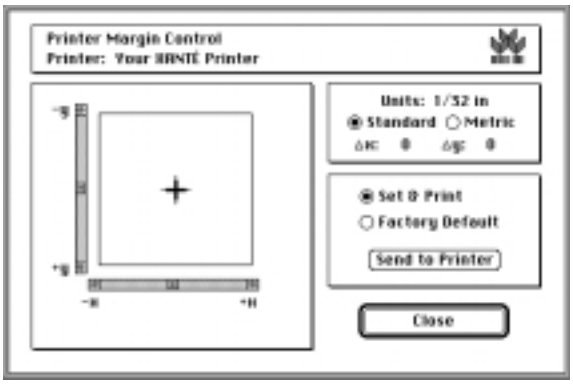

Fig. 3.23 Printer Margin Control Window

2. Select Standard to use 1/32 inch units or Metric for 1 mm units for adjustments.

3. Select Set & Print. Click Send to Printer. Click Ok in the warning dialog box (fig. 3.24). An alignment test page prints.

Fig. 3.24 Margin Alignment Warning

4. Turn the test page so that -x is to the left and -y is at the top of the crossed lines.

5. Check the current settings printed near the crossed lines. The factory default is x = 0, y = 0, which should cause each line to print 1" (25.4 mm) from the edge of the page.

   Coordinates listed on the alignment test page indicate change from the factory default in dots per inch. Because these measurements are rounded for display, adjustments should be based on careful measurements, not the printed coordinates.

   Note: If current settings are not the factory defaults and you must adjust the coordinates, you may reset factory default coordinates by selecting Factory Default and clicking Send to Printer. Click Ok in the warning dialog box. Print another alignment test page using the factory defaults.

6. Measure the distance from the edge of the page to the -x line. This distance is dependent on the y coordinate.

   - To move the -x line away from the edge of the page, move the slide on the vertical slide bar up (toward the -y).
   - To move the -x line closer to the edge of the page, move the slide on the vertical slide bar down (toward the +y).
   - The distance moved (in the units you selected in step 2) is displayed to the right of Δy.

7. Measure the distance from the edge of the page to the -y line. This distance is dependent on the x coordinate.

   - To move the -y line away from the page's edge, move the slide on the horizontal slide bar to the left (toward the -x).
   - To move the -y line closer to the page's edge, move the slide on the horizontal slide bar to the right (toward the +x).
   - The distance moved (in the units you selected in step 2) is displayed to the right of Δx.

8. Print another alignment page (see step 3).

9. Measure the -x and -y lines on the new test page. If the lines are not each 1" (25.4 mm) from the edge of the paper, go back to step 5 and repeat the process.

10. When the -x and -y lines are set correctly, click Close. Choose File: Quit to close Command Center.

Downloaded Fonts

Fonts downloaded to your printer are considered resident, which means applications do not have to bundle these fonts with print jobs. You can download fonts to your printer's optional hard disk or to printer memory. Fonts downloaded to printer memory only remain during the current power cycle. Fonts downloaded to an optional hard disk survive a power cycle.

Caution: Fonts downloaded to memory may cause PostScript errors due to insufficient memory. To resolve this, download fonts to the printer's optional hard disk or increase printer memory.

Downloading Fonts

1. Open the Adobe Downloader and select File: Download Fonts to bring up the following window.

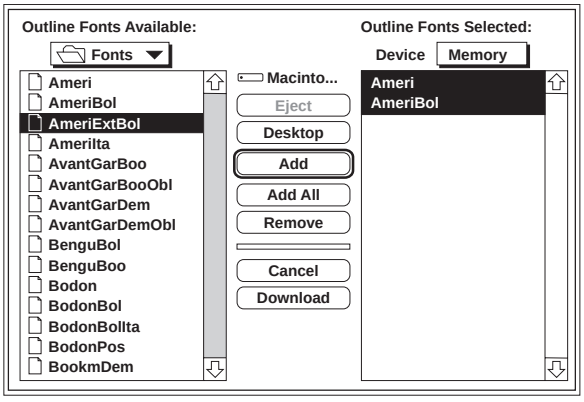

Fig. 3.25 Download Font Window

2. Select the folder on your Macintosh that contains the font files from the drop down menu on the top left of the window (fig. 3.25). The large box on the left displays the fonts in the selected folder.

3. Select Memory or Disk from the Device menu as the destination for the downloaded fonts.

   Note: If more than one optional hard disk is attached to your printer, select the target disk from the drop-down menu.

4. Highlight a single font in the list on the left and click Add or click Add All to select all the fonts in the open folder. Selected font(s) appear in the list on the right of the screen (fig. 3.25).

   Note: To remove fonts from the selected list, highlight the fonts and click Remove.

5. Click Download to send the selected fonts to the printer.

6. Wait until download is complete; then, select File: Quit to close the Adobe Downloader.

Reviewing and Removing Downloaded Fonts

1. Open the Adobe Downloader and select Special: Printer Font Directory. The following window appears.

Fig. 3.26 Listing Downloaded Fonts

2. Choose Printer or Screen and then click OK. If you select Printer, a list prints of fonts in the printer cartridge ROM and on the hard disks; if you select Screen, the Font Directory window appears (fig. 3.27).

Fig. 3.27 Font Directory Window

3. Select the font storage area from the Device menu to view the fonts present in that area.

4. Remove a font from printer memory or a hard disk by highlighting the font and clicking Delete.

5. Click OK to close the Font Directory window and return to the Adobe Downloader main menu.

Note: To remove fonts downloaded to printer memory, turn the printer off. Fonts are stored in printer memory only during the current power cycle.

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Chapter 4 - PC Setup

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Notes

Introduction

This chapter describes the contents of the PC XANTÉ Utilities as well as installing and configuring the Adobe PostScript printer driver and your printer's PPD (PostScript Printer Description) file. The procedures section covers your printer's features and options.

Note: Before beginning this setup, you should be familiar with all standard PC and Windows procedures.

XANTÉ Utilities CD-ROM (PC)

This section describes PC files and folders on the utilities CD-ROM.

The **Acrobat** folder contains Adobe Acrobat Reader 3.0 installation programs for Windows 95, and 98. See "Adobe Acrobat Reader 3.0" later in this chapter and the CD-ROM's Read1st.txt file for details.

The **Atm** folder contains an installation program for Adobe Type Manager and the expanded font set for use with Adobe PostScript 3. Run the Install.exe in the ATM302 folder (Windows 95 or 98) or in the ATM40 folder (Windows 95 or 98) or run Setup.exe in the ATM40_NT folder (Windows NT 4.0).

Autorun.inf allows XANTÉ Utilities Installer to launch automatically when the CD-ROM is inserted into a PC running Windows 95, 98, or NT 4.0.

The **Drivers** folder contains Adobe PostScript drivers and installation programs for Roman font printers for Windows 95, 98, NT 3.5, and NT 4.0.

Instread.txt describes the XANTÉ Utilities Installer, Adobe Acrobat 3.0, and Adobe Type Manager. This file is displayed by the XANTÉ Utilities Installer.

The **Manuals** folder contains some XANTÉ printer manuals in PDF files to be viewed on screen or printed using Adobe Acrobat Reader 3.0.

The **Pdfs** folder contains printer drivers required by QuarkXPress. See "XANTÉ Utilities Installer" and "PDFs Folder" later in this chapter.

The **Ppds** folder contains XANTÉ PPDs for Roman font printers. See the CD-ROM's Readme.PDF file and "Adobe PostScript Printer Drivers" later in this chapter.

The **Ps_files** folder contains PostScript files that can be downloaded to your printer using XANTÉ Command Center. See the Overview.pdf file in the CD-ROM's Ps_files folder and "Ps_files Folder" later in this chapter.

Read1st.txt describes XANTÉ Utilities Installer and Adobe Acrobat 3.0 Installer.

Readme.pdf summarizes the PC XANTÉ Utilities and describes installing Adobe PostScript Printer Drivers if you do not use the XANTÉ Utilities Installer. Use Acrobat Reader 3.0 to open this file.

Xantent is used by the Adobe PostScript printer driver installation for Windows NT 3.5x.

The **Xinstall** folder contains an installation program for XANTÉ Command Center, the PDF (Printer Description File) for QuarkXPress (if selected), and the PPD for PageMaker (if selected). See "XANTÉ Utilities Installer" later in this chapter.

Xinstall.exe launches the XANTÉ Utilities Installer for the PC.

Xmsprint.inf is the file Windows 95 and 98 use to install XANTÉ printers using the Microsoft Windows PostScript driver via the Add Printer Wizard.

Xtprint.inf allows you to install XANTÉ printers via the Add Printer Wizard instead of running the Adobe driver setup program.

The **Xutils** folder contains XANTÉ Command Center and a Readme file describing manual installation and setup of the utilities. It also contains the XD-1 software. See "XANTÉ Utilities Installer" and "XANTÉ Command Center" later in this chapter for details.

Always check the CD-ROM's Readme files for information not available at the time this manual was printed.

Adobe Acrobat Reader 3.0

XANTÉ Utilities CD-ROM documentation is in Adobe Acrobat Portable Document Format (PDF). You can install Adobe Acrobat Reader 3.0 from the CD-ROM. Windows NT 3.5.X users should install the Windows 3.1 version; Windows NT 4.0 users should install the Windows 95 version.

1. Insert the XANTÉ Utilities CD-ROM into your PC. With Windows 95, 98, or NT 4.0, the XANTÉ Utilities Installer launches automatically. Click Cancel; then, click Exit Setup to quit the automatic installation program.

2. Select Start: Run (Windows 95 or 98), and use Browse to select the Ar.exe file (Acrobat: Win95_98: Ar.exe) on the CD-ROM; then click OK.

3. Follow the instructions on each screen to complete installation.

4. See the CD-ROM's Read1st.txt file and the Adobe Acrobat 3.0 Readme file installed with the program on your system.

XANTÉ Utilities Installer

XANTÉ Utilities Installer installs XANTÉ Command Center, your printer's PPD, and selected application PDFs or PPDs; then, it launches the Adobe PostScript Printer Driver installer. With Windows NT, the installer for the most recent printer driver launches. With Windows 95 or 98, you can select which printer driver to install.

XANTÉ Utilities Installer runs properly only on an Intel based computer running Windows 95, 98, or NT. To load the Adobe PostScript printer drivers manually, see the CD-ROM's Readme.pdf and "Adobe PostScript Printer Drivers" later in this chapter. To load QuarkXPress PDFs manually see "PDFs Folder" later in this chapter. To install XANTÉ Command Center manually, run the CD-ROM's Setup.exe file in the Xutils folder.

XANTÉ Utilities and Application Drivers

Note: To do the NT 4.X setup, you must be logged on as the System Administrator.

1. Insert the XANTÉ Utilities CD-ROM into your PC. XANTÉ Utilities Installer launches automatically on systems running Windows 95, 98, and NT 4.0. To start the Installer manually, use the following steps.

    a. Select Start: Run (Windows 95 or 98).

    b. Use Browse to select the CD-ROM's Xinstall.exe file (Windows 95, 98, NT 3.5.X, and 4.0); then click OK.

2. Click Finish in the XANTÉ Utilities - Welcome window to begin installation.

3. Follow instructions on each window before clicking Next. When prompted, select the following items to customize your installation.

    a. Select your printer model(s) (fig 4.1). There are two screens with product models listings. Choose only the printer(s) that you are installing. Then, click Next.

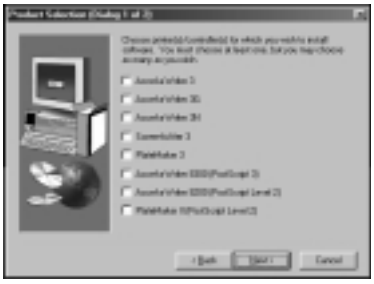

Fig. 4.1 Select Your Printer Model(s)

b. Select the application version that you use.

Note: If you are not using a listed application for Windows 95 and 98, select Next and go to step 3.d. For NT 4.X, select None and Next and go to step 3.e.

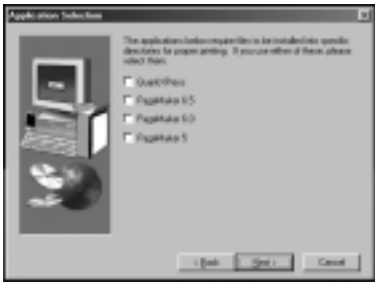

Fig. 4.2 Select Your Printer Application(s)

c. Select the destination directory for the application, if you specified an application and click Next.

Note: If you use QuarkXPress or PageMaker, setup will install the PPD(s) and /or PDFs for your printer in the default printer directory for those applications or in another directory you choose.

d. Select the destination directory for XANTÉ Utilities and click Next.

e. Select the program folder for the XANTÉ Utilities and click Next.

f. Select the AdobePS printer driver (fig. 4.3) for Windows 95 or 98, and click Next. This window does not appear for Windows NT 4.X because only the AdobePS 5.X driver (which supports both PostScript Level 2 and 3) is available. For NT 4.X skip to step 3 in "Installing the AdobePS Printer Driver and Printer PPD" in the "Windows 95, 98, and NT 4.0 Drivers" section later in this chapter.

Fig. 4.3 Select the AdobePS Printer Driver

Windows 95 or Windows 98:

- AdobePS 4.1 (Adobe PostScript Level 2 only)
- AdobePS 4.2 (Adobe PostScript Level 2 and Adobe PostScript 3)
- AdobePS 4.3 (Adobe PostScript Level 2 and Adobe PostScript 3—Some systems have problems using this new Adobe 4.3. If so, revert to AdobePS 4.2)

4. Review the configuration information in the Start Copying Files window (fig. 4.4). If you need to make any changes, click Back and make the appropriate changes.

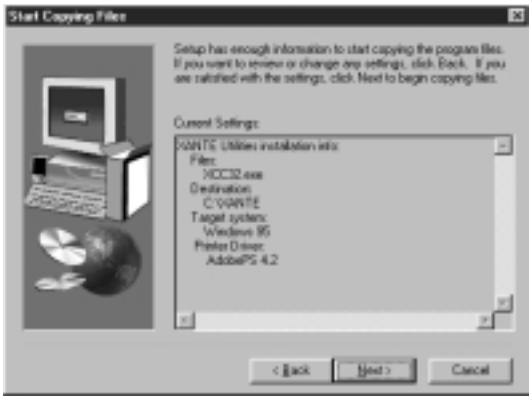
Start Copying Files
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
Files:
Destination:
C:\XANTE
Target system:
Windows 95
Printer Driver:
AdobePS 4.2
< Back
Next >
Cancel

Fig. 4.4 Start Copying Files Window

5. Click Next to install XANTÉ Utilities and any application-specific PPD that you selected. Then use the following appropriate procedure depending on which AdobePS driver version you selected:

   For AdobePS 4.1: Skip to “Installing AdobePS 4.1, 4.2, or 5.X and the Printer PPD.”

   For AdobePS 4.2: Skip to step 3 in “Installing the AdobePS Printer Driver and Printer PPD.”

   For AdobePS 4.3: When, the following screen appears, continue to step 6.

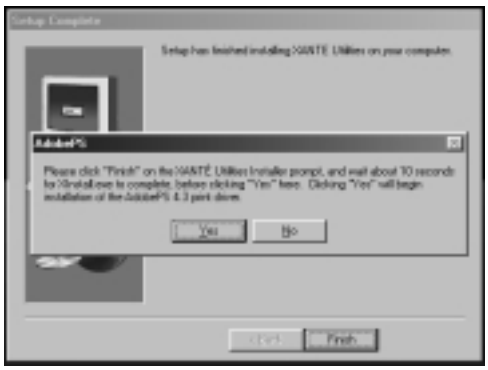

Fig. 4.5 Setup Complete Window (in the Back)

6. Click Finish on the Setup Complete window (this is the window behind the AdobePS screen in figure 4.5). Then, wait approximately 10 seconds and click Yes in the AdobePS window (fig. 4.6). The Adobe PostScript Installer automatically launches.

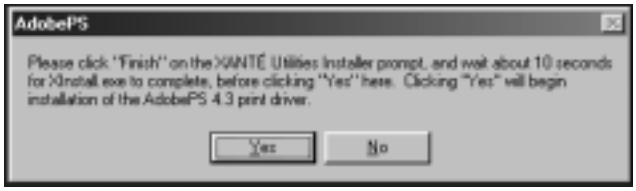
AdobePS
Please click "Finish" on the XANTÉ Utilities Installer prompt, and wait about 10 seconds for XInstall.exe to complete, before clicking "Yes" here. Clicking "Yes" will begin installation of the AdobePS 4.3 print driver.
Yes
No

Fig. 4.6 AdobePS Window

7. Go to the appropriate section for your operating system in "Adobe PostScript Printer Drivers" to continue the installation.

Adobe PostScript Printer Drivers

Before using your printer, you must install the Adobe PostScript driver and your printer's PPD.

XANTÉ Utilities Installer launches the installation program for the most recent Adobe PostScript printer driver on systems running Windows NT 4.0. It allows you to select the Adobe PostScript printer driver to load on systems running Windows 95 or 98.

This section describes loading the printer driver manually for each operating system and starting the installer. See "XANTÉ Utilities Installer" earlier in this chapter to load XANTÉ Utilities manually. See "PDFs Folder" later in this chapter to load QuarkXPress PDF files manually.

Deleting Previous Driver Versions

Normally, you do not have to delete previous Adobe PostScript printer drivers or any previously installed Adobe PostScript printers. However, if you suspect installation problems, first remove your installed printers from the Printers dialog box in the Windows Control Panel and reinstall them via the Adobe PostScript Printers dialog box which is also in the Windows Control panel.

If after removing and reinstalling your printers, you still experience problems, delete all previous driver versions and reinstall your printers using the Adobe PostScript Printers dialog box.

This section covers deleting AdobePS 4.1.X and later and deleting AdobePS 4.0 and earlier versions.

Deleting AdobePS 4.1.X and Later

To delete Adobe PS 4.1.X or later versions of the driver

1. Open Windows. Select Start: Programs: Windows Explorer. The Windows Explorer main window opens.

2. Select Tools: Find: Files or Folders. The following screen appears.

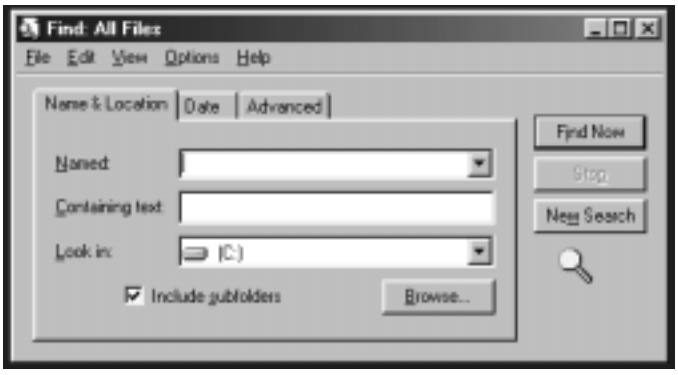

Fig. 4.7 Find: All Files Window

3. Delete each of the following four files on your C drive using the following procedure.

Adobeps4.drv	Defprtr2.ppd
Adobeps4.hlp	Adfonts.mfm

a. Enter the name of the file to be deleted in the Name field (Fig. 4.7).

b. Select Include subfolders.

c. Make sure C:\ is selected under “Look in.”

d. Click Find Now. The file name should appear in the bottom of the window.

e. Highlight the file name and press the Delete key.

Note: If Windows returns the message, "Error: Cannot delete this file, it is being used by Windows,” then restart your computer and return to step 1.

f. Repeat steps 3.a. through 3.d to delete the remaining three files.

g. Close the Find: File All window. You return to Windows Explorer.

4. Go to the C:\ root drive in the Windows Explorer window.

5. Locate and highlight AdobePS4 directory if it is listed; then, press the Delete key and go to step 8. If the directory is not listed, go to step 6.

6. Locate and open the Windows\Start Menu folder in the Windows Explorer window. Highlight the AdobePS4 directory if it is listed; then, press the Delete key and go to step 8. If the directory is not listed, go to step 7.

7. Go to the Windows desktop. Select Start: Settings: Printers. Then, locate your XANTÉ printer, highlight the printer name and press the Delete key to delete the printer from the list.

8. Restart your computer and install the desired AdobePS driver. See “Windows 95, 98, and NT 4.0 Drivers” later in this chapter.

Deleting AdobePS 4.0 and Earlier

To delete AdobePS 4.0 and earlier versions of the driver

1. Exit Windows and go to DOS.

2. Delete the following files from both your Windows and Windows: System directories.

   Note: Your configuration may not include all these files, but you need to delete the ones that are there.

   *.EBF
   *.PPB
   *.PPD
   *.PFM (delete the *.PFM files only if you did not place them here using the ATM control panel or a font installation program)
   ADOBEPS?.*
   RUN_ENUM.*
   PSINSTDV.EXE
   WINDOWN.EXE
   PS_ENUM.*
   DOWN.DLL
   DWN.HLP

3. Restart Windows.

4. Use Notepad or another ASCII text editor to delete the following entries from the Win.ini file in the Windows directory. *Only* delete the lines indicated by notes in the right column; the other lines are to help you locate the entries.

```
[<printer_name>,<port>]                    <<<Delete this line
PrinterName=<printer_nickname>             <<<Delete this line

[devices]
<printer-name>=ADOBEPS,<port>              <<<Delete this line

[PrinterPorts]
<printer_name>=ADOBEPS,<port>,15,45,...    <<<Delete this line
```

If the `device=` line in the `[windows]` section of the Win.ini file refers to AdobePS, delete that line also.

Windows 95, 98, and NT 4.0 Drivers

For Windows 95 and 98, the AdobePS 4.1 driver supports Adobe PostScript Level 2; the AdobePS 4.2 and 4.3 drivers support Adobe PostScript 3 and earlier. (Occasionally some systems have problems with the 4.3 driver; in this case, use the 4.2 driver.)

The AdobePS 5.X driver supports Adobe PostScript 3 and PostScript Level 2 on Windows NT 4.0 systems. This section describes installing and configuring these drivers and your printer's PPD.

Installing the AdobePS Printer Driver and Printer PPD

1. Go to step 2 (AdobePS 4.3) or step 3 (AdobePS 5.X) if the XANTÉ Utilities Installer automatically launches the AdobePS printer driver installation program. If not, use the following procedure to launch it.

    a. Insert the XANTÉ Utilities CD-ROM into your PC.

    b. Start Windows; then, close all Windows applications and spooling programs.

c. Use Windows Explorer to go the CD-ROM's Drivers: Win95_98: Ps41 or Ps42 folder and open the appropriate language folder; then, check the Readme file for updates before beginning installation.

d. Double-click the Setup.exe icon in the CD-ROM's Ps41 or Ps42 folder's appropriate language folder to begin installation.

e. Go to step 2 (AdobePS 4.3) or step 3 (AdobePS 4.2 or 4.1) to continue installation.

2. Read the Welcome window and click Next for AdobePS Driver 4.3. This window does not show up for AdobePS 4.1 and 4.2 drivers.

3. Read the license agreement and click Accept (Yes for Windows NT 4.0). Then, go to the appropriate following section for the AdobePS driver you chose.

   Note: If you click Decline, installation terminates.

Installing AdobePS 4.1, 4.2, or 5.X and the Printer PPD

After you accept the AdobePS license agreement, use the following procedure to install the driver and printer ppd.

1. Click Read in the PostScript Printer Driver Setup window to view the Readme file. When you close the Readme file, click Next (fig. 4.8).

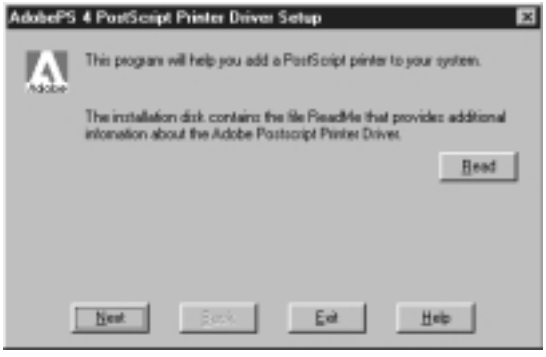
AdobePS 4 PostScript Printer Driver Setup
This program will help you add a PostScript printer to your system.
The installation disk contains the file ReadMe that provides additional
information about the Adobe Postscript Printer Driver.
Read
Next
Exit
Help

Fig. 4.8 PostScript Printer Driver Setup Window

2. Select Yes or No in the Install Setup Program window; then click Next.

   If you select Yes, go to step 3. If you select No, skip to step 4 after the driver files load.

3. Click Next to copy the AdobePS printer driver files and setup program to the default directory on your PC. Then, click Next. The Printer Type screen appears.

   Note: If an Existing Files On Local Disk window appears, click Next to install the files again or Skip to not reinstall the files.

4. Select how your printer is attached to your host in the Printer Type window (fig. 4.9).

   If your printer is connected to your PC through the serial or parallel port or if you are using Windows NT 4.0, select Local Printer, click Next, and skip to step 7.

   If your printer is connected to a network other than Windows NT 4.0, select Network Printer, click Next, and go to step 5.

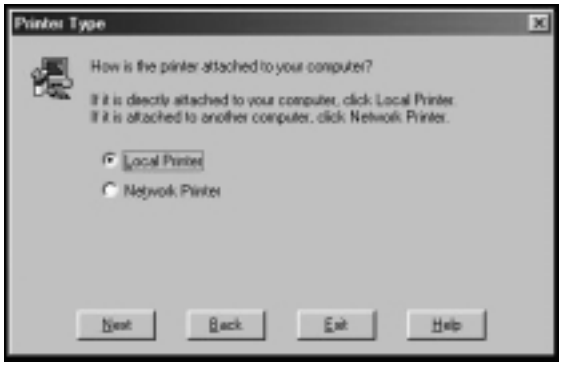

Fig. 4.9 Printer Type Window

5. Use Browse or type the network path or queue name in the Network Path window.

6. Click Next to bring up the Install PostScript Printer from PPD window (fig. 4.10). With a networked printer for AdobePS 4.1, go to step 7 or for AdobePS 4.2, skip to step 9.

   Note: Check with your system administrator if you have questions about the correct network information.

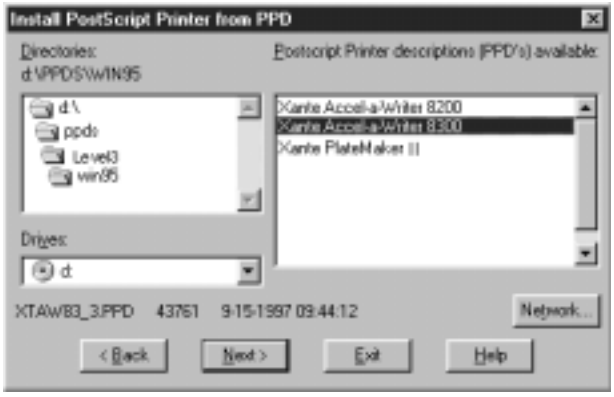

Fig. 4.10 Select the XANTÉ PPD

7. Select the drive containing the CD-ROM (fig. 4.10); then, select the PPDs: Level3: win95_98 folder (for a printer that supports Adobe PostScript 3) or select the PPDs: Level2: Win95_98 folder (for a printer that supports Adobe PostScript Level 2).

   Note: Windows NT 4.X uses the Windows 95 and 98 PPD.

8. Select your printer from the list of printers and click Next (fig. 4.10). Go to step 9 for a local printer (or systems running Windows NT 4.0); go to step 10 for a networked printer.

   Note: You can only select one PPD per installation. To install a PPD in addition to the standard PPD, click Add Another in step 14.

9. Select the port through which your PC is connected to the printer from the Available Ports box in the Local Port Selection window (fig. 4.11); then for Windows 95 and 98 click Next and go to step 11. For Windows NT 4.0, select LPT1; then, click Next and go to step 10. (The actual port configuration is done in "Configuring the PPD for Windows 95, 98, or NT 4.X," later in this chapter.)

   Note: Click Configure Port to change port configuration.

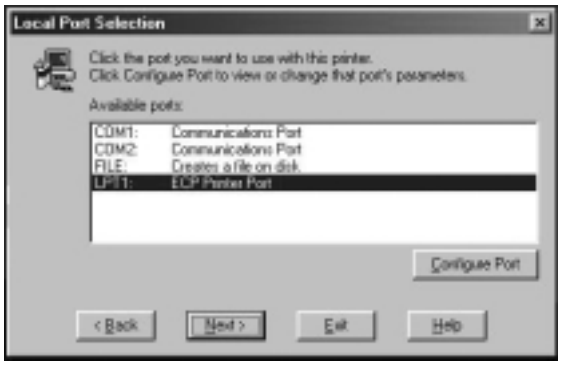
Local Port Selection
Click the port you want to use with this printer.
Click Configure Port to view or change that port's parameters.
Available ports:
COM1: Communications Port
COM2: Communications Port
FILE: Creates a file on disk.
LPT1: ECP Printer Port
Configure Port
< Back
Next >
Exit
Help

Fig. 4.11 Local Port Selection Window

10. Select Not Shared in the Get Shared Information window. Click Next. This window only appears on systems running Windows NT 4.0.

11. Set the following options in the Add Printer window (Windows 95 or 98) or Get Setup Information (Windows NT 4.0).

Add Printer
You can use the following name or enter another name for this printer.
You may use as many as 31 uppercase and lowercase characters or spaces.
Printer Name:
Your XANTÉ Printer
Do you want to use this printer as your default printer?
Yes
No
Would you like to print the test page?
Yes (Recommended)
No
< Back
Next >
Exit
Help

Fig. 4.12 Add Printer Window

a. Use the default printer name or type in a name you prefer.

b. Check Yes to set the printer as the default.

c. Select either Yes or No to print a test page for Windows 95 or 98. Select No to skip the test page print for Windows NT 4.0 because the port has not been set up at this point.

d. Click Next.

Note: If you get an attempt to install an older version message, with AdobePS 4.2 click Continue or with AdobePS 4.1, delete the older file.

12. Click OK. The Printer Properties window closes.

13. To set up another printer or another PPD, click Add Another. Click Exit to close the AdobePS printer driver installation program; then click Finish in the Setup Complete window.

After installing the AdobePS driver and the PPD, continue setup by configuring the PPD for the Windows 95, 98, or NT 4.0 environment.

Installing AdobePS 4.3 and the Printer PPD

After you accept the AdopbePS license agreement, use the following procedure to install the driver and printer PPD.

1. Select the type of printer installation (either to install a new PostScript printer or to upgrade the existing PostScript printers to AdobePS version 4.3) in the Printer Installation Type window. Then, click Next.

2. Select the type of printer connection you are using (local, network, or WebReady) in the Printer Connection Type window. Then, click Next.

3. Select the model of your printer in the Select Printer Model window. If your printer is not listed, use Browse to locate your printer or a compatible printer. If you cannot find one of those, select Generic PostScript Printer. Then, click Next.

Note: If you use Browse, go to the drive containing the XANTÉ CD-ROM. Open PPDs:level 3:Win 95_98 and choose your printer from the list. Click OK and then Next.

4. Select the port to use with your printer. Then, click Next. The Printer Information window appears.

   Note: If you want to view or change the selected port's parameters click Configure Port.

5. Use the default Printer name or enter another name in the Printer Name field. Select Yes to use the new printer as the default printer. Then, select Yes to print a test page, and click Next.

6. Review the configuration information in the Setup Information window. If you need to make changes, click Back and make the appropriate changes. Then, click Install. The Printer Configuration window appears.

7. Configure any options if you added any to your printer such as additional trays or memory, follow the directions in the Printer Configuration window. If you did not add options, click No and then Next. The Setup Complete window appears.

8. Select Yes, I want to view the ReadMe file. Then, click Finish. The ReadMe file opens.

9. Read the ReadMe file and then close it.

Configuring the PPD for Windows 95, 98, and NT 4.X

1. Select Start: Settings: Printers. The Printers window appears.

2. Highlight your printer model and click the right mouse button. Select Properties from the drop-down menu.

3. Click the Device Options tab (Windows 95 or 98) or the Device Settings tab (Windows NT 4.X). Then, make the following changes for options installed on your printer (fig. 4.13) using the appropriate following procedure.

   Windows 95 and 98—highlight the option in the Installable Options section; then select the setting under Change Setting.

   Windows NT 4.X—highlight the option in the top half of the Device Settings window; then, select the setting in the bottom half of the window.

Fig. 4.13 Device Options Tab

   a. Select Installed for the Upper Optional Tray (first optional paper feeder) if that upgrade was added to your printer. Select Installed for the Lower Optional Tray (second optional paper feeder) if that upgrade was added.

   b. Select True for Spooler Enabled to activate the Save Spooled Job menu in your application Print dialog box if your system has an optional internal hard disk.

Note: This does not enable the Spooler on your printer. The Spooler must be enabled using either the front panel Interface menus or XANTÉ Command Center. See “Spooler” in chapter 6 and “Spooler” later in this chapter for details.

c. Select the amount of RAM installed on your printer. For Windows 95 and 98, use the VMOption and then go to step 4. For Windows NT 4.X, use Installable Options:InstalledMemory and then skip to step 8.

4. Click the Graphics tab and set the printer’s default resolution for the highest resolution available on your printer.

5. Click the Details tab and make the following changes for a local printer. These options are not available for a networked printer.

   a. Under Timeout, make sure the settings are

      - Not Selected: 300
      - Transmission Retry: 900

   b. Click Spool Setting and select the following options; then, click OK to close the Spool Settings Window.

      - Spool data format: RAW
      - Enable bidirectional support for this printer (selected)

6. Click the PostScript tab.

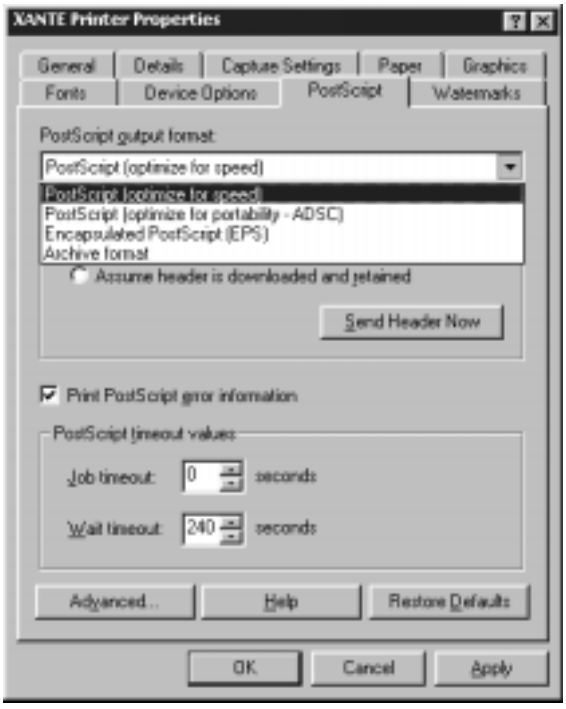

Fig. 4.14 PostScript Tab

a. In the PostScript output format box, select PostScript (optimized for speed) if you have a Pentium processor. If not, select PostScript (optimized for portability-ADSC).

b. Under PostScript header, select Download header with each print job.

c. Under PostScript timeout values, make sure the setting are

- Job timeout: 0
- Wait timeout: 240

7. Click the General tab if you want to print a test page; then, click Apply and then Print Test Page. Then, skip to step 9.

8. Select Yes for Send Control D after each Job (Windows NT 4.X).

9. Click OK. The Printer Properties window closes.

10. Select File: Close. The Printers window closes.

After the AdobePS printer driver and PPD are installed and configured, you need to do one of the following:

Windows 95 or 98—to verify that printer interfaces are properly configured, see “Configuring the Printer” later in this chapter.

Windows NT 4.X—to set up your printer for TCP/IP or AppleTalk, continue to either “LPR Port Setup for TCP/IP” or “AppleTalk Setup for EtherTalk” in chapter 5.

Configuring the Printer

If necessary, configure the printer’s communication interface using the front panel.

1. Select the SETUP:I/F menu.

2. Select the menu for the printer interface connected to your computer (RS232, PARALLEL, LPR, NETBEUI or NVL PSRV).

3. Select the ENABLE menu. Then, select YES.

4. Press the Reset key until READY/IDLE displays.

See “Interface Control” in chapter 6 about using the Interface configuration menus, chapter 5 about configuring the Ethernet options, and “XANTÉ Command Center” later in this chapter about configuring communication for that utility.

PDFs Folder

This folder contains PDFs (Printer Description Files) for each XANTÉ printer. QuarkXPress versions prior to 3.3.2 require these files in addition to the PPD. Use these PDFs to ensure the highest quality output from your printer and QuarkXPress.

The XANTÉ Utilities Installer loads the QuarkXPress PDF. To load these PDFs manually

1. Load and configure the Adobe PostScript printer driver and your printer's PPD following instructions in "Adobe PostScript Printer Drivers" earlier in this chapter.

2. Copy the XANTE_3S.PDF for the series 3 printers from the PDFs folder to the Xpress\PDF directory on your PC by typing the following command, substituting the drive letter containing the XANTÉ Utilities CD-ROM for [Drive].

   ```
   COPY [Drive]:\PDFS\XANTE_3S.PDF C:\XPRESS\PDF ↵
   ```

See the QuarkXPress section in the appendix for additional information.

PS_Files Folder

This folder contains Adobe PostScript files to help setup and maintain your printer and a PDF file, Overview.pdf, which describes these files.

These files can be downloaded to your printer using Send PostScript File in XANTÉ Command Center (see "XANTÉ Command Center" later in this chapter) or by typing the following DOS command, substituting a different port, if necessary:

```
COPY FILENAME.PS LPT1 ↵
```

Clean.ps prints cleaning instructions for the Accel-a-Writer 8100, 8200, and PlateMaker II.

D.ps contains a Control-D (PostScript's end-of-job marker) for use with applications that do not send a PostScript end-of-file.

Fonts.ps3 prints a list of Adobe PostScript 3 fonts resident on XANTÉ PostScript 3 printers.

Fontsamp.ps3 prints samples of Adobe PostScript 3 fonts resident on XANTÉ PostScript 3 printers.

Ftp.ps prints instructions for uploading and downloading files to XANTÉ's FTP (File Transfer Protocol) site.

InitdskX.ps files are used to initialize hard disks attached to or installed in your printer.

- Numbered files initialize the SCSI disk with the same device number (Initdsk1.ps initializes SCSI disk #1, Initdsk2.ps initializes SCSI disk #2, etc.) on the printer.
- Initdska.ps and Initdskb.ps initialize the internal IDE drive of the same designation (the A or B disk) on the printer.
- Initdsks.ps initializes *all SCSI and IDE drives* attached to the printer.

A hard disk must be initialized before it can be used to store downloaded fonts or to set up a spooling queue. Initializing a disk erases all information stored on that disk.

Novell34.ps prints instructions for setting up a XANTÉ printer on a Novell network.

Parmdump.ps prints a list of current settings for the communication devices configured for your printer.

Set_ip.ps allows you to set your printer's IP address. Open the file in a text editor and change the IP address in the parentheses to your printer's IP address. Save the file, and download it to your printer. The printer must be restarted before the change is effective.

Setzone.ps allows you to set your printer's EtherTalk zone namer. Open the file in a text editor and change "name of zone" in the parentheses to the name of your EtherTalk zone. Save the file, and download it to your printer. The printer must be restarted before the change is effective.

Startpg.off disables the printer's start-up page feature, which prevents it from printing automatically each time the printer is restarted. See "Start-up Page" in chapter 6 for details.

Startpg.on enables the start-up page feature, which causes it to print automatically each time the printer is restarted. See "Start-up Page" in chapter 6 for details.

Sysparm.ps prints a list of current system parameters.

XANTÉ Command Center

XANTÉ Command Center allows you to check and control many printer functions from your PC. See "XANTÉ Utilities Installer" earlier in this chapter for installation details.

The File and Help menus are similar to other Windows applications and are not described in this section.

Note: Your PC must be connected directly to the printer through a parallel or serial cable; XANTÉ Command Center cannot be run on a network.

Options Menu

This menu allows you to change the screen colors for XANTÉ Command Center.

Controller Menu

This menu allows you to perform page and line length calibrations, get printer settings and status information, download PostScript files to the printer, set network parameters, and change some printer default settings (fig. 4.15).

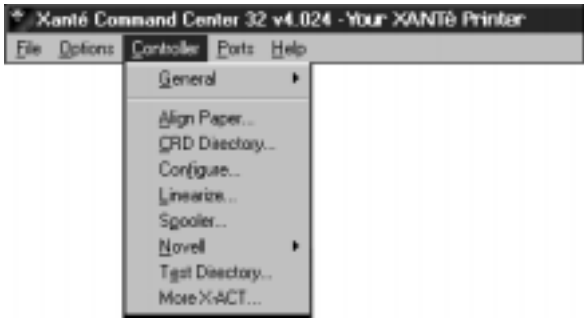

Fig. 4.15 Controller Menu

General

General menu options (fig. 4.16) allow you to access printer status information, perform diagnostics and troubleshooting, and set some network parameters.

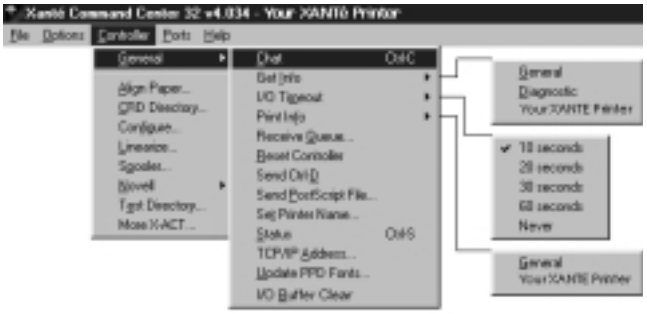

Fig. 4.16 General Menu

- **Chat** is a diagnostic communication tool to be used only as directed by XANTÉ Technical Support. Chat only works through a serial connection between the PC and printer.
- **Get Info** provides current printer status on screen.

  - The General screen gives the product name, the PostScript version, the amount of RAM installed, the margin (Page Align) settings, and the size and status of storage devices configured on the printer.
  - The Diagnostic screen provides an EEPROM status update.
  - Your Product Information screen lists the product name.

- **I/O Timeout** allows you to select the number of seconds the printer waits for additional incoming data before cancelling a job and returning to the idle state, ready to accept another job.
- **Print Info** allows you to print a copy of the same information available through Get Info.
- **Receive Queue** gives you access to a buffer that stores PostScript processing information. Check this file for information if you receive a PostScript error while printing.
- **Reset Controller** allows you to reboot and reinitialize the printer from your computer.
- **Send Ctrl-D** sends a Control-D (PostScript's end-of-job marker) to the printer.
- **Send PostScript File** allows you to download PostScript files to your printer.
- **Set Printer Name** allows you to rename your printer on a network other than Novell. Your printer's default name is the product name, which can be confusing on networks where there may be more than one printer of the same model.
- **Status** provides a fast, easy method to check current printer status. For example, it can indicate if your printer is idle (ready to receive and process new data) or busy.
- **TCP/IP Address** allows you to set the address or enable the LPR interface on the optional Ethernet port.

- **Update PPD Fonts** allows you to add all of your downloaded fonts to your current PPD (PostScript Printer Driver). Your PPD should be updated using this menu anytime you download fonts to the printer. This allows you to use the downloaded fonts as printer resident and to avoid packaging these font files with print jobs.
- **I/O Buffer Clear** allows you to empty the I/O buffer before sending any data to it. This makes communication more reliable. On, the factory default, enables this feature and Off disables it.

  Note: In some cases, turning the I/O Buffer Clear feature off may increase communication speed.

Align Paper

This option allows you to adjust the printer margin. Printer margin refers to the page's imageable area, not to the margin settings in an application. The imageable area is the portion of a page on which the printer can lay down toner; you may adjust the position of this imageable area. See "Printer Margin Adjustment" later in this chapter for details.

CRD Directory

This option is not for use with laser printers.

Configure

This option allows you to save printer configuration information to a file on your PC. If the printer configuration is set back to the factory defaults (following installation of a ROM upgrade, for example), this file can be downloaded to your printer to restore your customized configuration.

Linearize

This menu allows you to create and download custom curves to your printer. These curves can be selected for a specific job from the Print dialog box or set as the default from the printer's front panel. See "Calibration with a Densitometer (Gamma)" later in this chapter for details.

Spooler

This option allows you to enable and control printer hard drive spooling. Spooling frees up the communication channel between your PC and printer which permits your computer to return to other processing quickly. Spooling can be enabled for each interface independently using this menu or printer front panel Interface menus. See “Spooler” later in this chapter for details.

Novell

The Novell menu (fig. 4.17) allows your Network Administrator to configure the Novell Print Server emulation on your printer’s optional Ethernet interface. See chapter 5, “Ethernet Setup” for details.

Fig. 4.17 Novell Menu

Add File Server—allows you to specify up to four Novell file servers for your printer to poll for print jobs. XANTÉ printers can log onto as many as four file servers.

Delete filer Server—allows you to delete specific Novell file servers from the list that your printer polls for print jobs.

Delete All File Servers—allows you to delete all Novell file servers from the list that your printer polls for print jobs.

Printing—Allows you to enable and disable of printing and file server login functions for your printer’s Novell Print Server emulation over the Ethernet interface.

Set Print Server Login Name—allows you to set the name your printer uses when logging into a Novell file server.

Set Print Server Password—allows you to set the password your printer uses to login to a Novell file server.

Test Directory

This option is not for use with laser printers.

More X-ACT

This option allows you to calibrate printer line length to a standard and to correct inaccuracies in printing width, height, skew, and angle. See “Accurate Calibration Technology (X-ACT)” later in this chapter for details.

Ports Menu

The Ports menu allows you to select the PC port through which you are connected to the printer for XANTÉ Command Center.

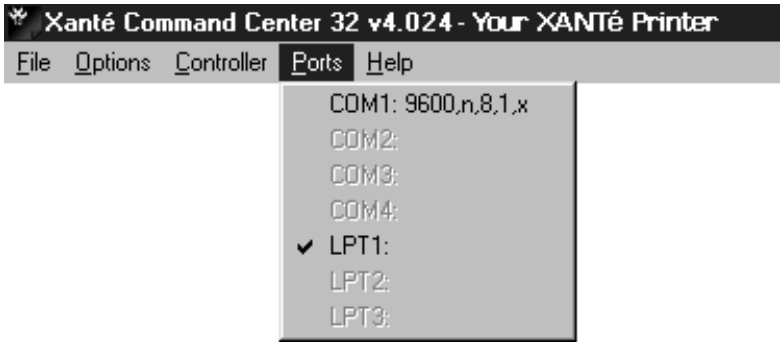

Fig. 4.18 Ports Menu

Procedures

This section covers procedures for using XANTÉ Utilities.

Spooler

If your printer has an optional hard drive, you can use the spooler to place print jobs into a queue on the hard drive. These jobs then can be reprinted from the queue, eliminating the time required to process and send the file to the printer. The Save Spooled Job feature allows you to save up to 250 print jobs on the hard drive for reprinting later. See “Spooler” in chapter 6 for details.

Spooling can be enabled for each interface independently through XANTÉ Command Center or printer front panel Interface menus. Command Center also allows you to manage jobs in the spooler print queue.

Using the Front Panel

The Spooler can be enabled using the Spooler menu for the interface. See “Interface Control” in chapter 6 for details.

1. Select the Interface (SETUP:I/F) menu.
2. Select the printer interface (SERIAL, PARALLEL, ETALK, LPR, NETBEUI, or NVL PSRV) that you use to send files.
3. Select the Spool menu. Then, select YES.
4. Press the On Line key to return the printer to the READY/IDLE state.

Using XANTÉ Command Center

This option allows you to enable and control spooling on the printer’s hard drive.

To Enable the Spooler

1. Open XANTÉ Command Center and select Controller: Spooler. The Spooler window appears.

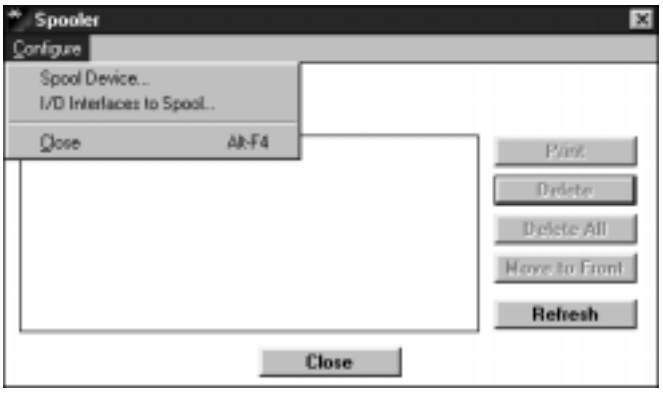

Fig. 4.19 Configure Menu in the Spooler Window

2. Choose Configure: Spool Device). The Select Spool Device window appears (fig. 4.20).

Fig. 4.20 Select Spool Device Window

3. Select the disk to store the spooled jobs (or select NONE to disable spooling); then click OK. The Spooler window reappears (fig. 4.19).

4. Choose Configure: I/O Interfaces to Spool. The Select I/O Interfaces to Spool window appears (fig. 4.21).

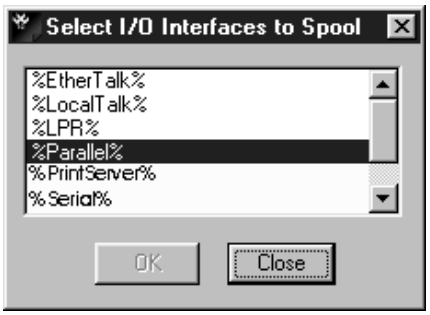

Fig. 4.21 Select I/O Interfaces to Spool Window

5. Select the interface that you use to send files to the printer; then click OK. The Spooler window reappears (fig. 4.19).

6. Click Close to exit the Spooler menu; then select File: Exit to close Command Center.

Managing Jobs in the Spooler's Job Queue

The spooler's job queue can store up to 250 jobs. Jobs sent with the Save Spooled Job option set to True in the Print dialog box are retained indefinitely in the queue. A saved job can be reprinted quickly from the Spooling menu without reprocessing.

1. Open XANTÉ Command Center and select Controller: Spooler. The Spooler Window appears (fig. 4.22).

Fig. 4.22 Spooler Window and Job Queue

Note: The Job queue lists the ID, status, title, spool device, and file size of all jobs in the spooling queue. Job status can be W (waiting to be processed), P (currently processing), or H (already processed and held using the Save Spooled Job feature).

2. Use the Control buttons to manage the jobs in the queue.

Print	Prints the highlighted job
Delete	Deletes the highlighted job
Delete All	Deletes all jobs in the queue
Move to Front	Moves highlighted job to the top of queue
Refresh	Updates screen with the current job queue

3. Click Close to exit the Spooler Window; then select File: Exit to close Command Center.

Calibration with a Densitometer (Gamma)

Densitometer support allows you to use gamma curves to adjust your printer's performance to eliminate inconsistencies due to equipment age, to different toners, press inks, and media, and to environmental conditions.

The XD-1 (XANTÉ densitometer), combined with XANTÉ Command Center software, measures grayscale output for calibration and proofing. This affordable, easy-to-use densitometer will be used in this manual for example purposes.

Seven standard curves are supplied with XANTÉ Halftone Calibration Technology, and you can create up to seven custom gamma curves. You can select any custom or standard gamma curves on a job by job basis using the front panel Gamma menu or the Print dialog box Gamma PPD option. See "Halftone Calibration Technology (Gamma)" in chapter 6 for details.

Custom curves are created using XANTÉ Command Center and a densitometer using the following steps:

- Printing a Calibration Page
- Using the Densitometer
- Linearizing the Densitometer Data

Printing a Calibration Page

To begin calibrating your printer, print a calibration page to measure the printer's current performance as a basis for the calibration.

1. Open XANTÉ Command Center and choose Controller: Linearize. The Linearization window appears (fig. 4.23).

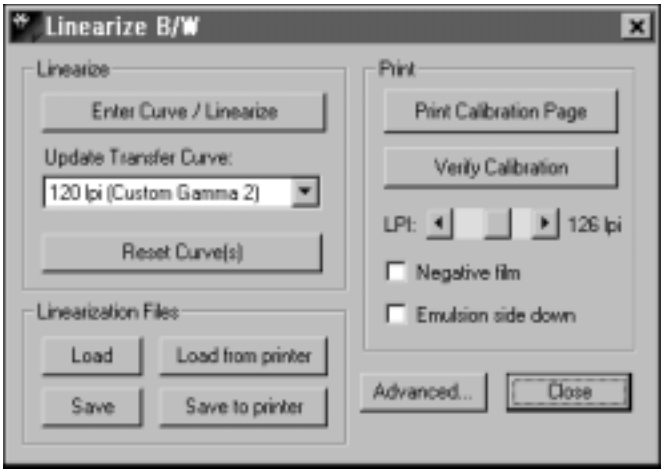

Fig. 4.23 Linearization Window

2. Change the Linearization window LPI setting in the Print box (fig. 4.23) to achieve 256 levels of gray for the resolution at which you are printing.

   Note: For 600 dpi, select 85 lpi; for 1200 dpi, select 106 lpi; for 2400 dpi, select 133 to 150 lpi. Any lpi may be used; measure the lpi that is to be used for final output.

3. Print a Calibration Page to measure the printer's current performance as a basis for the calibration. To do this use the following procedure:

Note: *Always* print the calibration page using the same media and toner or press ink as used for the final copy. When calibrating plate or film media, you *must* select Man Feed using the Tray Select key and select the media size through the front panel MISC: MAN FEED menu. Universal is the largest size available in the front panel. If you have larger media, you need to cut it down to 13" x 18.5" (330 mm x 470 mm).

Also, when possible, calibrate from the final output. For example when calibrating for plates, take the plate to press and print. Then, measure the output from the press.

a. Select Negative Film to calibrate the printer if you are calibrating for negative output from your printer.

b. Select Emulsion side down if you want to print a mirror image.

Note: The printed calibration page will still look like a positive, but the patch (box) values will be reversed.

c. Select the custom Gamma Curve you want to update from the Update Transfer Curve list. This curve selection automatically updates the LPI option to match the lpi listed for the selected curve. To select a different lpi setting, use the LPI option and scroll to the desired setting.

Note: If you select a custom lpi for a listed curve, the lpi listed in front of the curve's name in the Update Transfer Curve box *does not* change to match the new lpi. In this case, you need to keep a record of the new lpi setting for that gamma curve.

d. Select the resolution which you will use to print the final output in the printer front panel MISC:DPI menu.

e. Click Print Calibration Page (fig. 4.23). The calibration page shows the printer's performance using no gamma curve correction (fig. 4.24).

Note: Print only one calibration page (using the Print Calibration Page button) at the beginning of the calibration process. Printing this page again later in the process resets the calibration, cancelling any linearization you have already done.

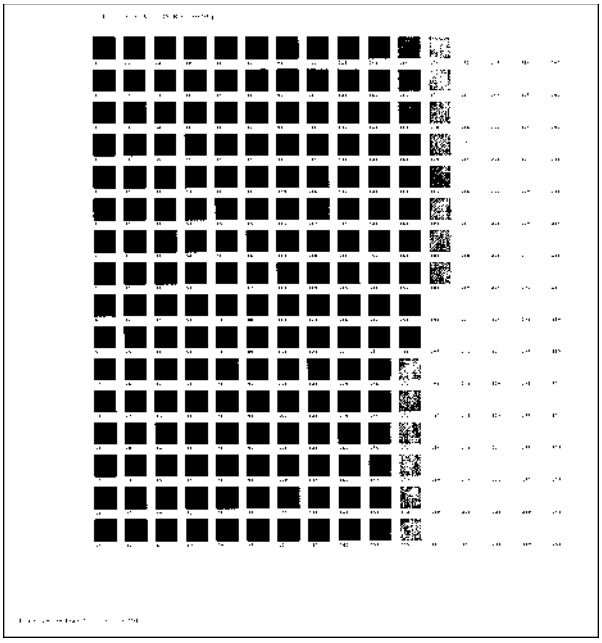

Fig. 4.24 Sample Calibration Page

Using the Densitometer

A densitometer uses a standard light source to measure the amount of light reflected from printer output. This measurement is compared to a standard and expressed as a percentage of gray.

Like any other precision instrument, the densitometer must be calibrated before each use. Refer to its documentation for instructions on calibrating and using the densitometer.

After calibrating the densitometer, use it to get density measurements for the calibration page you printed.

Linearizing the Densitometer Data

Enter the densitometer measurements to calculate the adjustments necessary to correct printer performance to a linear standard.

1. Click Enter Curve/Linearize (fig. 4.23). The Densitometer Data Entry window appears (fig. 4.25).

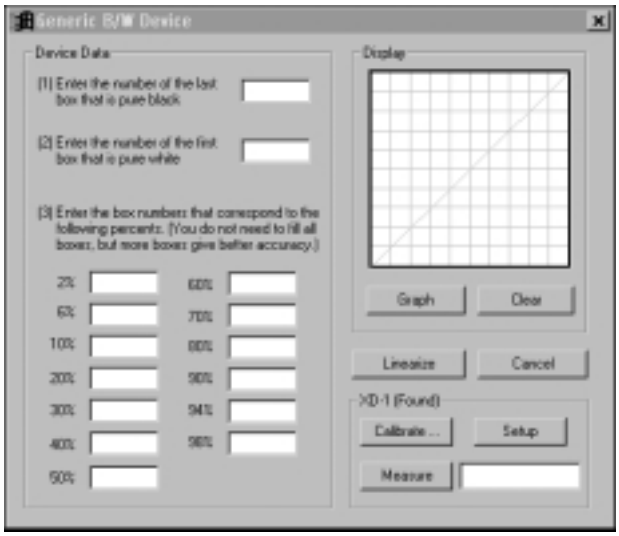

Fig. 4.25 Densitometer Data Entry Window

2. Measure individual patches on the calibration page by placing the page on a white background; then, center the densitometer's lens over the patch and either click the black button on top of the XD-1 or click the measure button on the Densitometer Data Entry window (fig. 4.25). The measurement appears in the box to the right of the Measure button.

3. Make sure to enter the solid black (1) and solid white (2) measurements first. Enter the number of the patch whose densitometer measurement most closely matches (within ± 2%) the corresponding percentage in the enter the box numbers section (3).

   For example, when you are reading for 2%, if the box labeled 7 measures 2%, enter the number 7 in the corresponding box.

   Note: The calibration page blocks are numbered from 0 to 255. You may have to check several blocks to find the one that most closely matches the percentage in the Densitometer Data Entry window.

   Also, it is not necessary to measure for each coverage value listed in the Densitometer Data Entry window, but it is recommended to do so to achieve more accurate results.

4. Click Graph to display a curve of your printer's linear curve.

5. Click Linearize to continue. The Linearization window reappears (4.23)

   Note: If you need to stop linearization (for example, to change the media type), you can click Cancel to stop.

6. Click Save (fig. 4.23) if you want to save the data file for future use. Then, specify a new file name and select a folder for saving the file. Click Save. Otherwise, skip to step 7.

7. Click OK to close the Linearization window.

Note: If you want to verify linearization, click the Verify Calibration button (4.23) before you close the Linearization window. When this page prints compare it to the original calibration page to verify the gamma correction; you should see an improvement in gray scale progression.

Advanced Gamma Control

If you are an expert user, you may want to adjust image lowlights, midtones, highlights and details in a gamma curve using the Advanced option in the Linearization window.

Note: You cannot see advanced window adjustments on screen. Unless you are an advanced user, you should make these adjustments through an application.

1. Select the gamma curve to update from Update Transfer Curve in the Linearization window (fig. 4.23).

2. Click Advanced. The Advanced Settings window appears (fig. 4.26). Use the appropriate scroll bars to make the adjustment and click OK to return to the Linearization window (fig. 4.23).

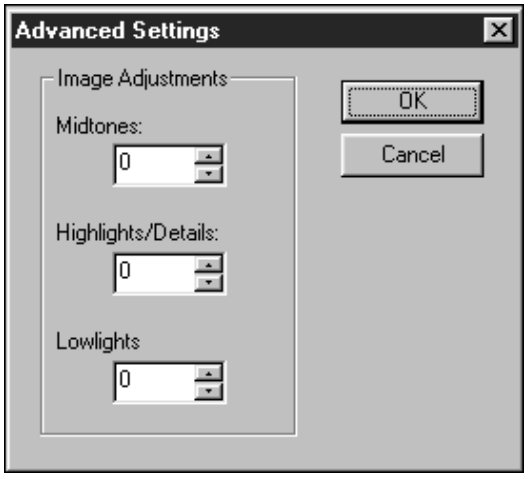

Fig. 4.26 Advanced Gamma Settings

3. Click Enter Curve/Linearize to create a new curve and download it to your printer. The Densitometer Data Entry window appears (fig. 4.25).

4. Click Linearize (fig. 4.25). The new curve replaces the existing curve on your printer. The Linearization window reappears.

5. Click Close; the Linearization window closes. Then, select File: Exit to close Command Center.

Managing Custom Gamma Curves

You can retrieve custom gamma curves (that you created or downloaded using the densitometer and Command Center) from your printer and save them on your system. These files can be downloaded to the printer again as needed.

To manage custom gamma curves, open XANTÉ Command Center and select Graphics: Linearization. The Linearization window appears (fig. 4.23). Then use one of the following procedures to manage your custom gamma curve.

- To retrieve a custom gamma curve from the printer, click Load from printer.
- To retrieve a custom gamma curve saved to your PC, click Load and select the file.
- To save a custom gamma curve to your PC, retrieve it from the printer using Load from printer; then click Save.
- To save a custom gamma curve to your printer, retrieve it from your PC using Load. Select the custom gamma curve to be updated from the Update Transfer Curve list; and click Save to printer.

Resetting Custom Curve Defaults

You can reset one or all custom curves to the factory setting(s).

To reset a custom gamma curve to the factory default (which is a copy of the standard Gamma 0 curve)

1. Highlight the curve to change in the Update Transfer Curve list in the Linearization window and click Reset Curve(s) (fig. 4.23). The Reset Curves window appears.

Fig. 4.27 Reset Curves Window

2. Choose either Reset Custom Gamma *X* to factory setting (the *X* will be replaced by the number of the curve you highlighted in step 1) or choose Reset all to factory settings. Then, select Negative Film if the final printed output will be a negative print.

3. Click Ok. After the curve or curves are reset, the Linearization window reappears.

4. Click Close; the Linearization window closes. Then, select File: Exit to close Command Center.

Accurate Calibration Technology (X-ACT)

Use XANTÉ's patented X-ACT feature to calibrate your printer in two ways, through the front panel MISC:XACT menu or through XANTÉ Command Center's X-ACT menu.

Front Panel X-ACT

Your printer's front panel MISC:XACT menu allows you to make 1/2 mm line length adjustments using the following procedure.

Note: To use the front panel XACT menu, you need a ruler with 1/2 millimeter rule. Also, you must use the paper cassette, not the multipurpose feeder, when making X-ACT adjustments. Adjustments for one size media apply to every media size, so you do not have to make individual adjustments for each size.

1. Make sure the printer is on and idle. Then, make sure that media the size of your final output is loaded in the printer's paper cassette and the cassette is selected as the media source.

2. Press the Menu key until `SETUP:MISC` appears. Then, press the Enter key.

3. Press the Menu key until `MISC:XACT` appears. Then, press the Enter key.

4. Press the Menu key until `XACT TEST PAGE` appears. Then, press the Enter key. A page prints with 2 lines, Line A and Line B. The measurement listed by each line is the desired length for that line on that media size. In this example, Tabloid size 11" x 17" (257 mm x 431 mm) media is used. Line A should be 251.46 mm and Line B should be 388.61 mm.

5. Measure Line A. Use the following procedures to adjust the printer for the correct line length.

    a. Note the amount Line A is over or under 251.46 mm.

    b. Press the Menu key until `LINE A` appears. Then, press the Enter key.

    c. Press the Menu key until the amount which would most closely adjust the line to the desired length appears. Then, press the Enter key. For example, if Line A is 250.46 mm instead of 251.46 mm, select 1.00 mm to add one mm to make the line the correct length.

6. Measure Line B. Use the following procedures to adjust the printer for the correct line length.

a. Note the amount Line B is over or under 388.61 mm.

b. Press the Menu key until `LINE B` appears. Then, press the Enter key.

c. Press the Menu key until the amount which would most closely adjust the line to the desired length appears. Then, press the Enter key. For example, if Line B is 389 mm instead of 388.61 mm as it should be, select -0.50 mm to shorten the line to 388.50.

7. Press the Reset key to return to the previous menu level. Then, press the Menu key until XACT:TEST PAGE reappears and press the Enter key to print a new test page.

8. Repeat steps 5 and 6 until the line measurements agree with the lengths listed on the test page.

9. Press the On Line key when the line lengths are correct. READY/IDLE appears in the window.

Now the printer's line lengths are calibrated correctly.

Command Center X-ACT

Use XANTÉ Command Center's X-ACT feature to calibrate printer line lengths and correct inaccuracies in printing width, height, skew, and angle.

Note: You must have Command Center and your printer's current PPD installed before you can use Command Center's X-ACT. You also will need a 1/2 millimeter ruler.

1. Open XANTÉ Command Center and select Controller: More X-ACT. The More X-ACT window appears (fig. 4.28).

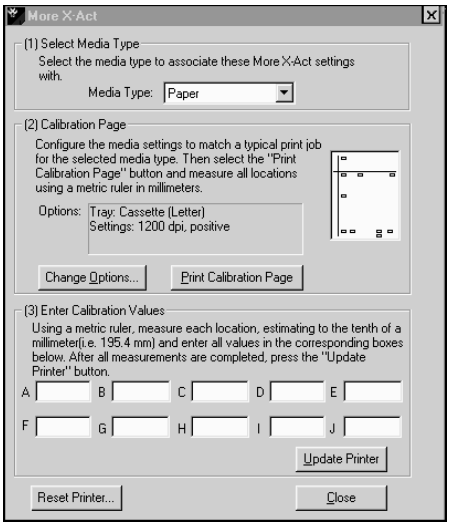
More X-Act
(1) Select Media Type
Select the media type to associate these More X-Act settings with.
Media Type:
Paper
(2) Calibration Page
Configure the media settings to match a typical print job for the selected media type. Then select the "Print Calibration Page" button and measure all locations using a metric ruler in millimeters.
Options:
Tray: Cassette (Letter)
Settings: 1200 dpi, positive
Change Options...
Print Calibration Page
(3) Enter Calibration Values
Using a metric ruler, measure each location, estimating to the tenth of a millimeter(i.e. 195.4 mm) and enter all values in the corresponding boxes below. After all measurements are completed, press the "Update Printer" button.
A
B
C
D
E
F
G
H
I
J
Update Printer
Reset Printer...
Close

Fig. 4.28 More X-ACT Window

2. Make sure that the same type of media you will use for final printing is loaded in the printer.

3. Select the media type you are using from the Media Type drop-down menu.

   Note: Each media type can have only one set of options. For example, if you calibrate for 8 1/2 x 11 (letter) paper, choose Paper as your media type. If you also calibrate for 11 x 17 (tabloid) paper, choose User-defined 1 as your media type.

4. Check Options to make sure the paper (media) source and print settings are correct. If any of the settings are incorrect, click Change Options; when the More X-ACT Advanced Setup window appears (fig. 4.29), make the necessary changes.

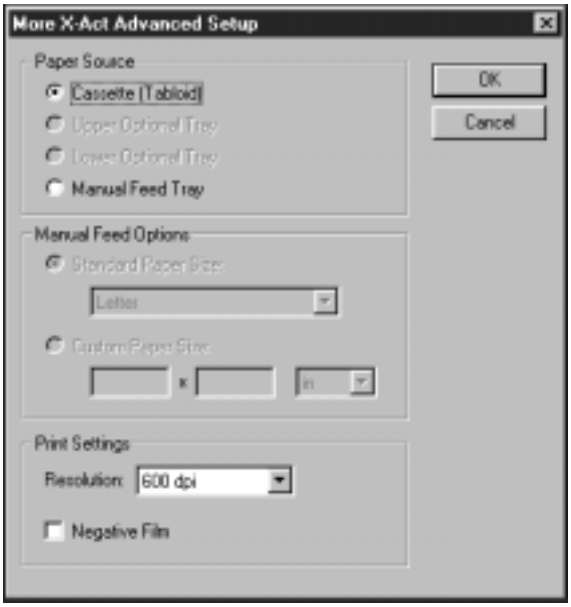

Fig. 4.29 More X-ACT Advanced Setup Window

a. Under Paper Source, if you select Manual feed go to step 4.b; if not, skip to 4.c.

b. Under Manual Feed Options, if you are using standard size media, click Standard Paper Size and select the size from the drop-down menu. If you are using a custom size, click Custom Paper Size and enter the size and select the unit of measure (inch, millimeter, or centimeter).

c. Under Print Settings, select the resolution from the drop-down menu. Click the Negative Film box if you are printing negative output.

d. Click OK. The More X-ACT window reappears.

5. Click Print Calibration Page. A test page similar to the one shown in the Calibration Page section prints.

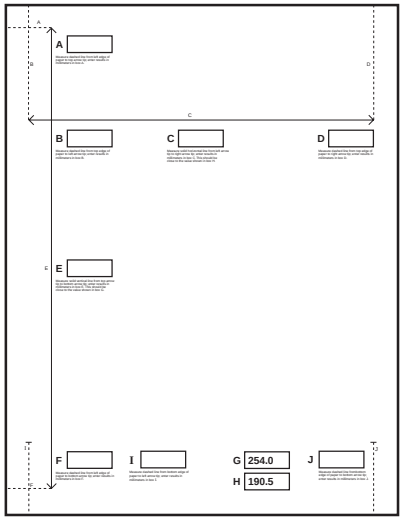

Fig. 4.30 X-ACT Calibration Page

6. Make the measurements indicated on the calibration page next to boxes A through F, I, and J, recording each measurement in its corresponding box on the calibration page. The values in boxes G and H are fixed values and do not require you to make any measurements.

7. Copy the recorded measurements in boxes A through F, I, and J and the fixed values in boxes G and H from the calibration page to the corresponding boxes in the Enter Calibration Values section of the More X-ACT window.

8. Click Update Printer.

   Note: When you click Update Printer, a window displays the Printer Calibrated message. Click OK to continue and all the numbers clear automatically from the boxes in the Enter Calibration Values section. *Do not* enter the values again. Also, if you click Reset Printer, you can reset all settings or the selected media type.

9. Repeat steps 5 through 8 until the measurements in the corresponding boxes are within .5 mm of each other.

   Note: Your application printer properties must match your calibration settings. For example, if you chose User-defined 1 as your media type in the More X-ACT calibration window for 11 x 17 (tabloid) paper, you must choose User-defined 1 as your Media Weight in your application printer properties when printing on 11 x 17 paper.

10. Click Close. The More X-ACT window closes.

Printer Margin Adjustment

Use Printer Margin Adjustment feature to adjust the printer margin, which is the position of the imageable area on the media.

Note: Use the standard paper size (letter or A4) for your paper cassette with the Align Paper function.

1. Open XANTÉ Command Center and select Controller: Align Paper. The Align Paper window appears.

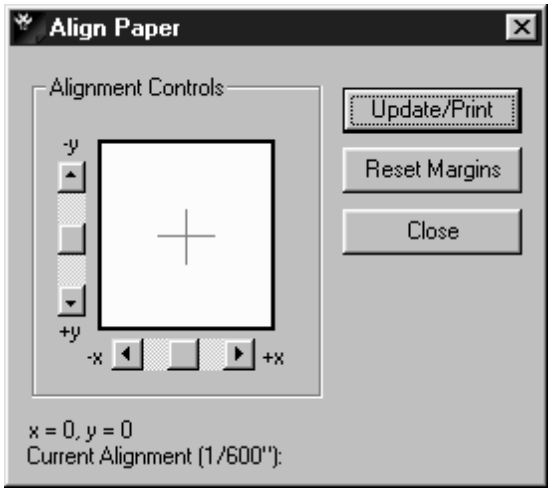

Fig. 4.31 Align Paper Window

2. Click Update/Print to print an alignment test page. Click OK in the Alignment message box.

3. Turn the test page so that -x is to the left and -y is at the top of the crossed lines (fig. 4.31).

4. Check the current settings printed near the crossed lines. The factory default is x = 0, y = 0, which should cause each line to print 1" (25.4 mm) from the edge of the page.

   Coordinates listed indicate the change from the factory default in dots per inch. When you make a change using the slide bar, coordinates at the bottom of the screen display the change in the same units.

   Note: If current settings are not the factory defaults and you must adjust the coordinates, it may be easier to reset to the factory defaults before beginning. To do this, click Reset Margins. Then print another alignment test page (steps 1 and 2) using the factory defaults.

5. Measure the distance from the edge of the page to the -x line. This distance is dependent on the y coordinate.

   - To move the -x line away from the edge of the page, move the slide on the vertical slide bar up (toward the -y).
   - To move the -x line toward the edge of the page, move the slide on the vertical slide bar down (toward the +y).

6. Measure the distance from the edge of the page to the -y line. This distance is dependent on the x coordinate.

   - To move the -y line away from the edge of the page, move the slide on the horizontal slide bar to the left (toward the -x).
   - To move the -y line toward the edge of the page, move the slide on the horizontal slide bar to the right (toward the +x).

7. Click Update/Print; then, click OK in the Alignment message box to print another alignment page.

8. Measure the -x and -y lines on the new test page. If the lines are not each 1" (25.4 mm) from the edge of the paper, go back to step 4 and repeat the process.

9. When the -x and -y lines are set correctly, click Close. Then, select File: Exit to close Command Center.

Managing Fonts on an Optional Hard Disk

Fonts downloaded to your printer are considered resident, which means applications do not have to bundle these fonts with print jobs. You can download additional fonts to the printer's memory or to an optional hard disk. Fonts downloaded to printer memory remain only through the current power cycle. Fonts downloaded to an optional hard disk survive a power cycle.

Caution: Fonts downloaded to memory may cause PostScript errors due to insufficient memory. To solve this, download the fonts to the printer's optional hard disk or increase printer memory.

To remove all downloaded fonts from printer memory, turn the printer off and then back on.

To remove specific fonts downloaded to a hard disk, see the documentation for your font downloader program. To remove all fonts downloaded to a hard disk, reinitialize the disk by downloading the Initdsk.ps file.

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Chapter 5 - Ethernet Setup

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Notes

Introduction

This chapter covers configuration for the EtherTalk, Novell Print Server, and Line Printer protocols on the printer's Ethernet interface using printer front panel menus, XANTÉ Command Center, and specific network software. It also covers NetBEUI configuration in a PC environment.

EtherTalk Network Configuration

Ethernet, a multiple protocol medium, allows you to run several network protocols concurrently. An EtherTalk network allows you to run the AppleTalk protocol on a physical base which can be three to five times faster than a LocalTalk network.

Note: Typically, only Macintosh computers are installed on an EtherTalk network. If you have PCs operating in an EtherTalk network, see the documentation that came with your PC EtherTalk interface.

The following steps are required to set up your XANTÉ printer on an EtherTalk network. Chapter 2 covers step 1, chapter 6 covers step 2, and this section covers steps 3 and 4.

1. Connect your XANTÉ printer to the network through the Ethernet port.
2. Enable the printer's EtherTalk interface, if necessary.
3. Select the EtherTalk Phase 2 driver.
4. Change the EtherTalk Zone name, if necessary.

Select the EtherTalk Phase 2 Driver

Your printer supports EtherTalk Phase 2 on an EtherTalk network. If the Phase 2 driver is not included with your Macintosh operating system, call the vendor that supplied the Ethernet card for your Macintosh.

- Select the Phase 2 driver through the Network Control Panel under Apple menu: Control Panels on a Macintosh with an older operating system (System 6.X and earlier).
- Select Ethernet from the drop down menu in the AppleTalk Control Panel under Apple menu: Control Panels on a Macintosh with an operating system that supports Open Transport (System 7.5 and later and some versions between 6.X and 7.5).

Change the EtherTalk Zone Name

On an EtherTalk network with more than one zone, the network router assigns your printer a default zone. Check with your System Administrator to determine the correct zone for your printer; then, if necessary, change the printer's zone name using XANTÉ Command Center.

Using XANTÉ Command Center

1. Open XANTÉ Command Center by double-clicking its icon.
2. Choose Networking: AppleTalk: EtherTalk Zone Name.

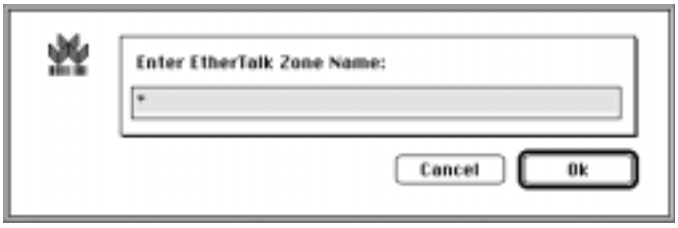

Fig. 5.1 EtherTalk Zone Name Window

3. Enter the new name for the EtherTalk zone.

   Note: EtherTalk zone names are limited to 32 characters, are not case sensitive, and cannot include the = (equal), ≅ (approximately equal), * (asterisk), : (colon), or @ (at) characters.

4. Click OK to return to the Command Center main menu.

5. Choose File: Quit to close Command Center.

6. Restart the Printer to make the new zone name effective.

Novell NetWare Configuration

The Ethernet upgrade allows your printer to support EtherTalk, Novell NetWare print server, NetBEUI, and TCP/IP protocols concurrently.

In a Novell network, users send print jobs to a queue on a server. The print server monitors these queues and submits the jobs to the appropriate network printer. Your printer can service multiple print queues on up to four file servers.

The following steps are required to set up your XANTÉ printer on a Novell network. Chapter 2 covers step 1, this section covers steps 2 through 4, and chapter 3 (Macintosh) or 4 (PC) covers step 5.

1. Connect your XANTÉ printer to the network through the Ethernet port.

2. Configure the Novell server, assigning the print server (your printer) access to specific queues.

3. Configure the print server emulation to direct your printer to poll the appropriate Novell server(s).

4. Configure the Novell print server interface on your printer.

5. Install and configure the Adobe PostScript driver on the individual workstations.

Configure the Novell Server

Using a Novell utility, your Novell System Administrator sets up and names the print servers and print queues on the Novell server. This section covers selecting Novell names and then configuring for Novell NetWare Versions 3.X, 4.X, or 5X.

Selecting the Novell Names

Certain characters are invalid for use in Novell names (fig. 5.2). The Novell utility automatically replaces any of these characters in the printer's default name with an underscore (_) character and changes all characters in the name to uppercase.

space ( )	less-than sign (<)
double quote (")	equals sign (=)
asterisk (*)	greater-than sign (>)
plus sign (+)	question mark (?)
comma (,)	left bracket ([)
forward slash (/)	backward slash (\)
colon (:)	right bracket (])
semi-colon (;)	vertical bar (|)

Fig. 5.2 Invalid Characters for Novell NetWare Names

Your printer's default Novell print server name appears on the start-up page after the Ethernet board is installed. The default print server name is formed by adding a _PS extension to your printer's PostScript name. The printer PostScript name Accel-a-Writer 3 becomes the default print server name ACCEL_A_WRITER_3_PS.

The Novell System Administrator may assign a print server name other than the default and may assign a password to control access to the server.

Note: The print server name on the printer must match the corresponding print server name on the Novell file server. For example use xante_ps for both of these names. It also is recommended that you name the Novell file server queue a similar name such as xante_q.

Both the print server name and the password must follow Novell NetWare naming conventions (fig. 5.2). On the printer, the password is case sensitive and write-only.

Note: Do not set passwords for access to the server unless necessary. If a password has been set for a printer, it must be reset to a null password before you can make changes to the printer's Novell setup in XANTÉ Command center. See "Configure the Print Server Emulation" later in this chapter to set the password.

To configure the Novell server for NetWare versions 3.X or 4.X see the next section; for version 5.X, skip to "Configure the Novell Server (NetWare 5.X)" later in this chapter.

Configure the Novell Server (NetWare 3.X and 4.X)

This section covers setup for Novell NetWare Version 3.X and 4.X using PConsole.

1. Check the AUTOEXEC.NCF file on the Novell file server from the server console. If the following statement is not in the file, add it using a text editor.

   ```
   Set allow unencrypted passwords = on
   ```

2. Login to the network with supervisory privileges.

3. Type `PCONSOLE` and press Enter.

4. Set up the print server name using the following procedure. To use a print server name other than the default, see the previous section.

   Note: The print server name on the printer must match the corresponding print server name on the Novell file server. For example use xante_ps for both of these names. It also is recommended that you name the Novell file server queue a similar name such as xante_q.

   a. Select Available Options: Print Server Information (version 3.X) or Available Options: Print Servers (version 4.X) and press Enter.

   b. For version 4.X only, press the F4 key for bindery emulation (XANTÉ does not support NDS [NetWare Directory Services]).

   c. Press Insert and type in your printer's default PostScript name adding `_PS` as an extension. This is the printer's default Novell print server name that appears on the start-up page.

d. Press Escape until you return to the Available Options menu.

5. Set up the Print Queue name.

   a. Select Available Options: Print Queue Information (version 3.X) or Available Options: Print Queues (version 4.X) and press Enter.

   b. Press Insert and type in a queue name. XANTÉ recommends that the name be twelve characters or less.

6. Link the Print server name to the Print Queue name.

   a. For version 3.X:

      1) Highlight the print queue name that you entered in step 5.b and press Enter.

      2) Highlight Queue Servers and press Enter.

      3) Press Insert and highlight the print server name that you entered in step 4.c and press Enter.

   b. For version 4.X:

      1) Enter the Print Queues Volume or press Insert for a list of available Volumes. Highlight the Volume Object and press Enter twice.

      2) Highlight the print queue name that you entered in step 5.b and press Enter.

      3) Highlight Print Servers and press Enter.

      4) Press Insert and highlight the print server name that you entered in step 4.c and press Enter.

7. Press Escape until the Exit PConsole dialog box appears.

8. Highlight Yes and press Enter to exit from PConsole.

Now that the Novell server is configured for NetWare 3.X and 4.X, skip to “Configure the Print Server Emulation” later in this chapter.

Configure the Novell Server (NetWare 5.X)

Use XANTÉ Command Center to setup the Novell print server name, the file server name of the Novell server and the Printer AppleTalk name if it is different. (See “Selecting the Novell Names” earlier in this chapter for details.) Also use Command Center to enable login and printing.

To configure the Novell server for NetWare 5.X

1. Login to the Novell server as the administrator or equivalent.

2. Run NWAdmin. A NetWare Administrator window similar to the following appears (fig. 5.3).

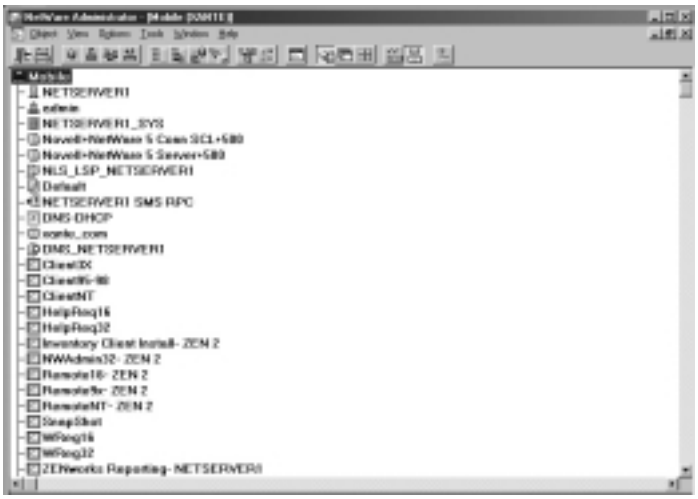

Fig. 5.3 NetWare Administrator Window

3. Highlight the main organization where the printer will be installed (fig. 5.3). Then, select Object: Create (fig. 5.3). The New Object Window appears (fig. 5.4).

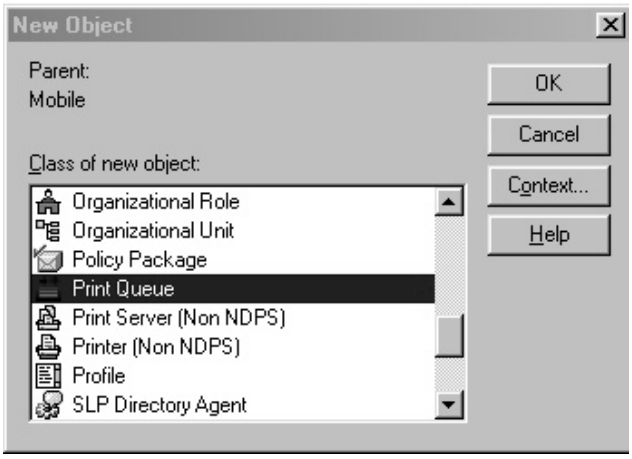

Fig. 5.4 New Object Window

4. Select Print Queue and then click OK (fig. 5.4). The Create Print Queue window appears (fig. 5.5).

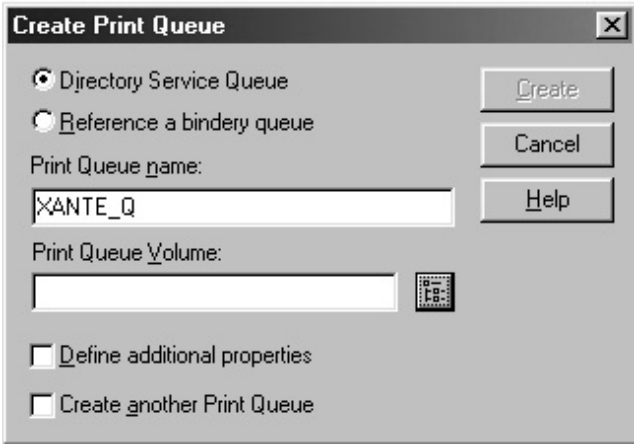

Fig. 5.5 Create Print Queue Window

5. Select Directory Service Queue and under Print Queue Name enter the desired queue name (such as XANTE_Q).

6. Click the Browse button to the right of the Print Queue Volume field (fig. 5.5). The Select Object window appears (fig. 5.6).

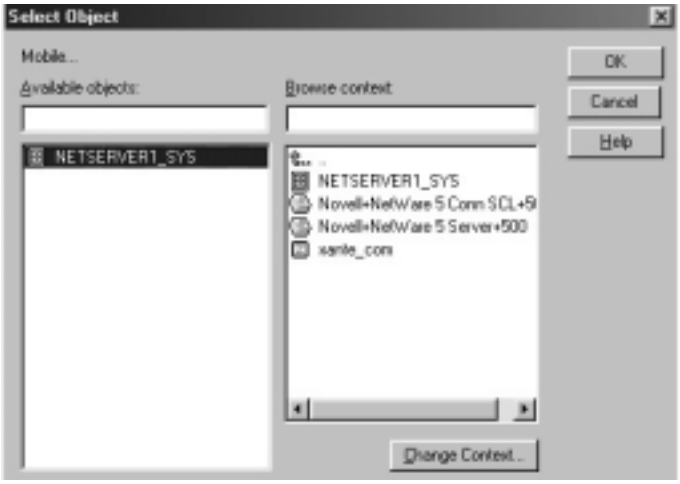

Fig. 5.6 Select Object Window

7. Highlight the print server volume in the left side of the Select Object window. This will be the file server name_sys. Then click OK; the Create Print Queue window reappears (fig. 5.5) with the print queue name in the Print Queue Volume field.

8. Click Create (fig. 5.5). The NetWare Administrator window reappears (fig. 5.3).

9. Highlight the main organization where the printer will be installed. Then, select Object: Create. The New Object window reappears (fig. 5.4.).

10. Select Printer under Class of new object (fig. 5.4). Then, click OK. The Create Printer window appears (fig. 5.7).

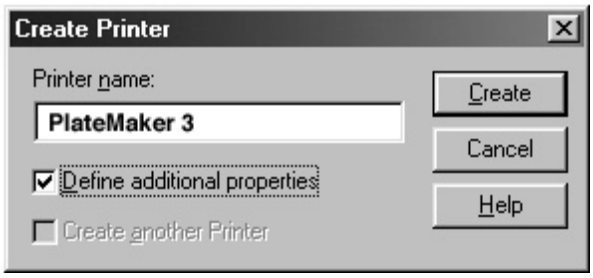

Fig. 5.7 Create Printer Window

11. Enter the printer name as it appears on the printer's start-up page (for example PlateMaker 3).

    Note: In a Macintosh environment, the printer can be renamed using XANTÉ Command Center. See "Networking Menu" in chapter 3.

12. Select Define additional properties; then, click Create. A window for your printer appears (fig. 5.8).

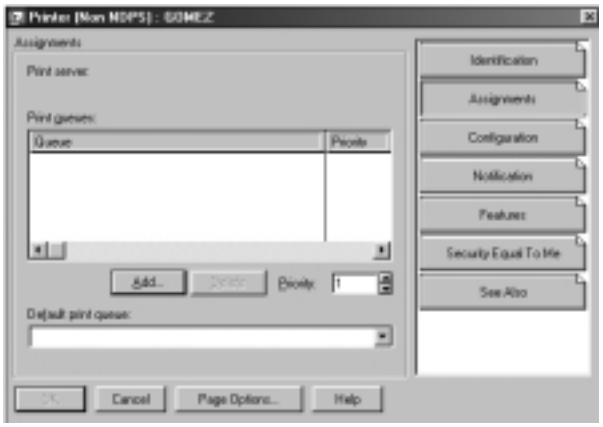

Fig. 5.8 Your Printer's Window.

13. Click Assignments; then, click Add (fig. 5.8). The following Select Object window appears.

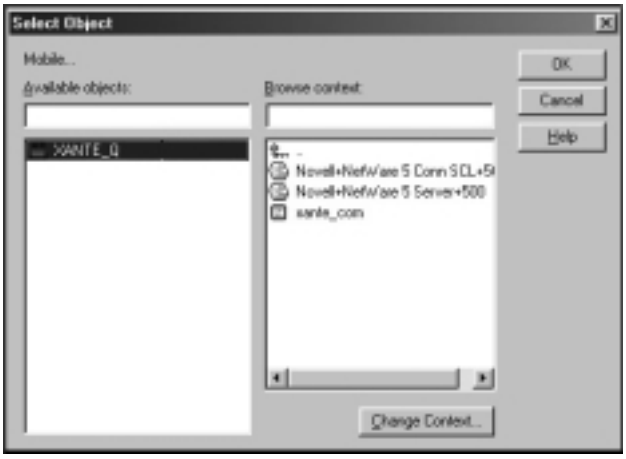

Fig. 5.9 Select Object Window

14. Highlight the print queue name in the left of the Select Object window. Then, click OK. The Network Administrator window reappears (fig. 5. 3).

15. Highlight the main organization where the printer will be installed. Then, select Object: Create. The New Object window reappears (fig. 5. 4).

16. Highlight Print Server in the Class of new object list. Then, click OK. The Create Print Server window appears (fig. 5.10)

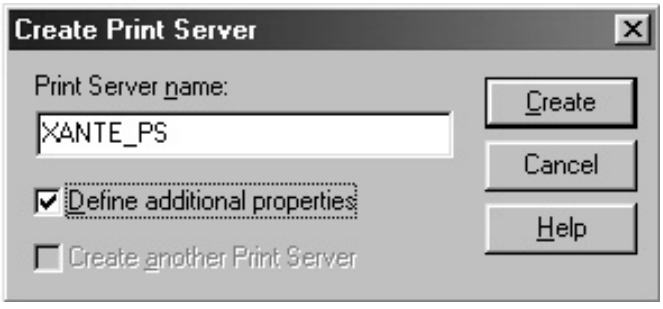

Fig. 5.10 Create Print Server Window

17. Enter the printer server name. This name *must* match the Novell Printer Server Name from the printer start-up page. Then, click Create. The following Print Server window appears (fig. 5.11).

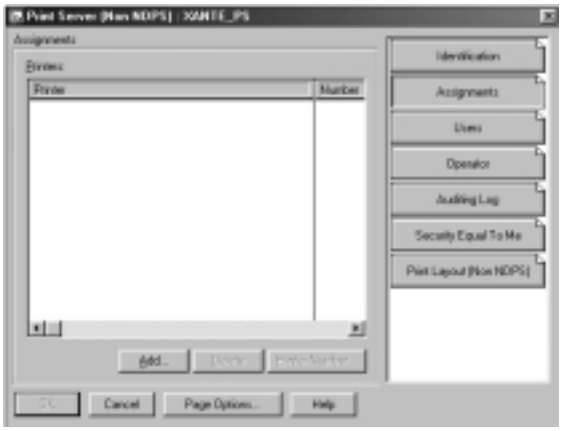

Fig. 5.11 Print Server Window

18. Click Assignments and then click Add. The Select Object window reappears (fig. 5.9).

19. Highlight your printer's name in the left side of the window. Then, click OK. The Network Administrator window reappears with three new icons on the list (fig. 5.12).

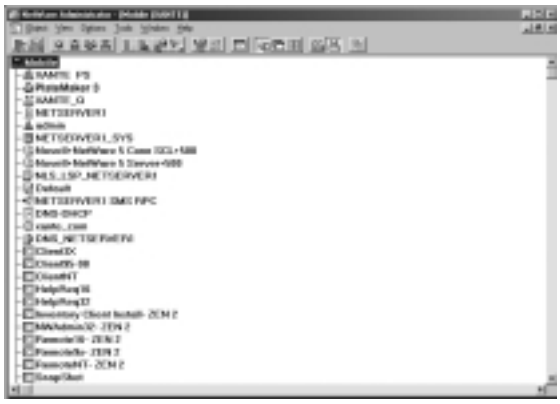

Fig. 5.12 Network Administrator Window with New Icons

20. Enable Novell Print Server on the printer's front panel using the following procedure.

    a. Press the Online key once to take the printer offline.

    b. Press the Menu key until SETUP:I/F appears; then, press the Enter key.

    c. Press the Menu key until I/F:NVL PSRV appears; then press the Enter key. NVL PSRV:ENABLE appears.

    d. Press the Enter key. Then, press the Menu key until ENABLE:yes appears.

    e. Press the Enter key. Then press the Online key.

The Novell server is now configured for NetWare version 5.X.

Configure the Print Server Emulation

Following the file server setup, the Novell System Administrator assigns the printer a list of file servers to poll and gives it the login name and password (if required) to access each server. This section describes configuring the print server emulation using XANTÉ Command Center. See your Novell NetWare documentation if you prefer to use that application. See chapter 3 (Macintosh) or 4 (PC) to install and configure Command Center on your host computer.

Using XANTÉ Command Center (PC)

Note: Your PC *must* be directly connected to the printer through a parallel or serial cable to use XANTÉ Command Center. You *cannot* set the commands through a network.

1. Open XANTÉ Command Center by double-clicking its icon.

2. Choose Controller: Novell: Add File Server.

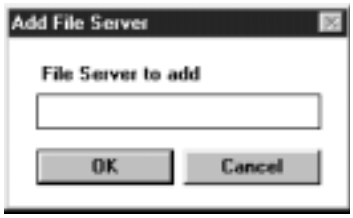

Fig. 5.13 Add File Server Window

3. Type in the name of the Novell file server that your printer will poll for print jobs exactly as it appears in PConsole; then click OK to return to the main menu.

   Note: The printer enters a waiting state while it saves the file server name. Do not proceed until the printer displays the `READY/IDLE` message.

4. If you did *not* use the printer's default Novell print server name in the file server configuration with PConsole (in "Configure the Novell Server (NetWare 3.X and 4.X)" see step 4.c), change the print server login name to agree with the print server name set up on the file server.

   Note: If you used the printer's default Novell print server name (see "Selecting the Novell Names" earlier in this chapter) this step is not required.

   a. Choose Controller: Novell: Set Print Server Login Name.

Fig. 5.14 Set Print Server Login Name Window

   b. Type in the Print Server name exactly as it was entered in the file server configuration using PConsole (in "Configure the Novell Server (NetWare 3.X and 4.X)" see step 4.c); then click OK to return to the main menu.

Note: The printer enters a waiting state while it saves the file server name. Do not proceed until the printer displays the READY/IDLE message.

5. If a password is required to access the file server, change the print server password to agree with the password set up on the file server.

   Note: If no password is required to access the Novell server, this step is not required.

   a. Choose Controller: Novell: Set Print Server Password.

   b. Type in the password exactly as it was entered on the file server. The password is case sensitive and must follow the Novell NetWare naming conventions.

      Note: The printer enters a waiting state while it saves the file server name. Do not proceed until the printer displays the READY/IDLE message.

6. Repeat steps 2 through 5 to add up to four file servers.

7. Print a start-up page by taking the printer off line, pressing the front panel Test button, and then putting the printer back on line. Check the page to be sure the new print server name is enabled.

8. Go to "Configure the Novell Print Server Interface" later in this chapter to continue configuration. To complete configuration using printer front panel menus, rather than XANTÉ Command Center, choose File: Exit to close Command Center.

Using XANTÉ Command Center (Macintosh)

1. Open XANTÉ Command Center by double-clicking its icon.

2. Choose Networking: Novell Print Server: File Servers. Click Add New to open the new file server window.

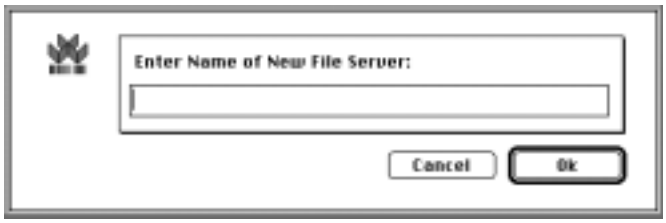

Fig. 5.15 New File Server Window

3. Type in the name of the Novell file server that your printer will poll for print jobs exactly as it appears in PConsole; then click OK to return to the main menu.

   Note: The printer enters a waiting state while it saves the file server name. Do not proceed until the printer displays the `READY/IDLE` message.

4. If you did *not* use the printer's default Novell print server name in file server configuration with PConsole (in "Configure the Novell Server (NetWare 3.X and 4.X)" see step 4.c), change the print server name to agree with the print server name set up on the file server.

   Note: If you used the printer's default Novell print server name (see "Selecting the Novell Names" earlier in this chapter), this step is not required.

   a. Choose Networking: Novell Print Server: Print Server Name.

Fig. 5.16 Print Server Name Window

   b. Type in the Print Server name exactly as it was entered in the file server configuration using PConsole (in "Configure the Novell Server (NetWare 3.X and 4.X)" see step 4.c); then click Ok to return to the main menu.

Note: The printer enters a waiting state while it saves the file server name. Do not proceed until the printer displays `READY/IDLE`.

5. If a password is required to access the file server, change the print server password to agree with the password set up on the file server.

   Note: If no password is required to access the Novell server, this step is not required.

   a. Choose Networking: Novell Print Server: Set Print Server Password.

   b. Type in the password exactly as it was entered on the file server; then click Ok to return to the main menu. The password is case sensitive and must follow Novell NetWare naming conventions.

      Note: The printer enters a waiting state while it saves the file server name. Do not proceed until the printer displays `READY/IDLE`.

6. Repeat steps 2 through 5 to add up to four file servers.

7. Print a start-up page by taking the printer off line, pressing the front panel Test button, and then putting the printer back on line. Check the page to be sure the new print server name is enabled.

8. Go to "Configure the Novell Print Server Interface" later in this chapter to continue configuration. To complete configuration using printer front panel menus rather than XANTÉ Command Center, choose File: Quit to close Command Center.

Configure the Novell Print Server Interface

Use XANTÉ Command Center and printer front panel menus to enable your printer's Novell Print Server interface and to configure timeout and frame type options for your network environment.

- To enable the Ethernet Interface, which directs the printer to login to listed file servers and begin printing jobs from assigned print queues, use either Command Center or printer front panel menus.
- To configure the frame type used on your network, use either Command Center's Macintosh version or printer front panel menus.
- To configure the Novell timeout, which specifies the number of minutes that the printer waits before disabling the Novell print server emulation when an assigned file server cannot be found, use printer front panel menus.

This section describes Ethernet Interface configuration using XANTÉ Command Center. See chapter 6 to use front panel menus. See chapter 3 (Macintosh) or 4 (PC) to install and configure Command Center on your host computer.

Using XANTÉ Command Center (PC)

1. Open XANTÉ Command Center by double-clicking its icon.
2. Choose Controller: Novell: Printing: Login to File Servers. Click OK in the message box to direct the printer to login to the assigned file servers.
3. Choose Controller: Novell: Printing: Enable Printing. Click OK in the message box to direct the printer to begin printing jobs from the assigned print queues.
4. Choose File: Exit to close Command Center.

Using XANTÉ Command Center (Macintosh)

1. Open XANTÉ Command Center by double-clicking its icon.

2. Choose Networking: Novell Print Server: Login & Printing.

Fig. 5.17 Print Server Login and Printing Control Window

3. Click the option buttons for Enable Login and Enable Printing. Click Ok to save the changes and return to the main menu. This directs the printer to login to the assigned file servers and begin printing jobs from the assigned print queues.

4. Choose Networking: Novell Print Server: Network Protocol.

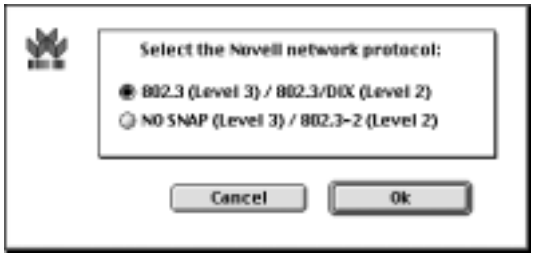

Fig. 5.18 Network Protocol Window

5. Click the option button to select either 802.3/DIX for NetWare versions 3.12 and 4.X or NO SNAP/802.3-2 for NetWare versions prior to 3.12. Click OK to return to Command Center's main menu.

6. Choose File: Quit to close Command Center.

Install the Adobe PostScript Driver

The Adobe PostScript printer driver must be installed and configured on every workstation using the printer. See chapter 3 (Macintosh) or 4 (PC) for instructions.

Line Printer Configuration

The Ethernet interface's Line Printer option allows you to configure your printer to communicate using TCP/IP (Transmission Control Protocol/Internet Protocol). TCP/IP provides a method of communication between different types of networks. It is the Internet's basis for data transmission and is becoming more widely used on all types of computers and operating systems.

The following steps are required to set up your printer to communicate using the Line Printer interface on the Ethernet board. Chapter 2 covers step 1; this section covers steps 2 through 4.

1. Connect your XANTÉ printer to the network through the Ethernet port.
2. Configure the Line Printer interface on your printer.
3. Set the TCP/IP address of the printer.
4. Configure the Printer setup on the network.

Configure the Line Printer Interface

Use printer front panel menus or XANTÉ Command Center (Macintosh) to enable your printer's Line Printer interface, if necessary. See chapter 6 to use front panel menus. See "Set the TCP/IP Address" later in this section to use Command Center.

TCP/IP Addresses

Every workstation that communicates via TCP/IP is assigned a unique 32 bit address. The convention for expressing a TCP/IP address is to convert each octet of the address to a decimal number separated from the other octets by a decimal point. The default TCP/IP address for all XANTÉ printers is 192.9.200.201.

TCP/IP addresses are divided into classes based on the network's size. The TCP/IP address assigned depends on the class and includes the network ID and the host (individual computer or peripheral) ID.

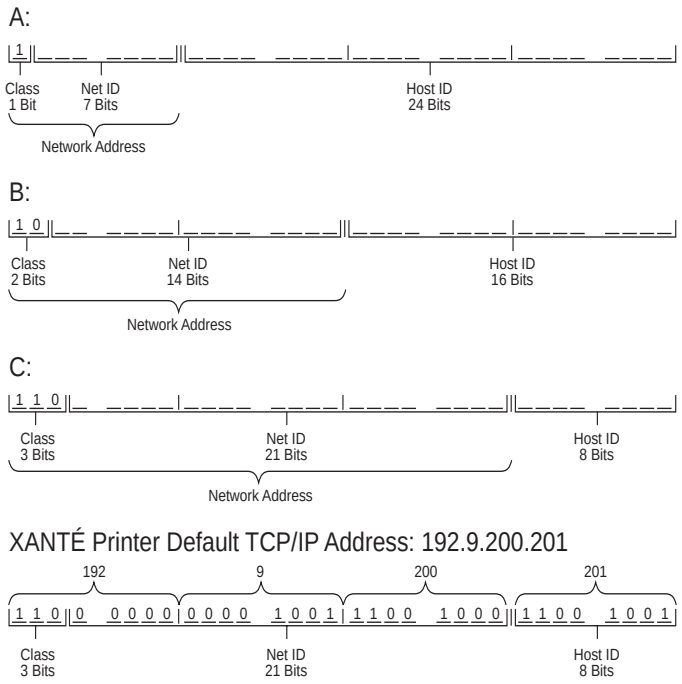

Fig. 5.19 Network Addresses

The class A address is used for large networks with more than 65,536 (2^{16}) individual workstations. The first 8 bits of the address identify the network. The remaining 24 bits are used as host IDs. The class A address begins with the numbers 1 through 126.

The class B address is used for networks with more than 256 (2^8), but less than 65,536 (2^{16}) workstations. The first 16 bits identify the network. The remaining 16 bits are used as host IDs. The class B address begins with the numbers 128 through 191.

The class C address is used for networks with less than 256 (2^8) workstations. The first 24 bits identify the network. The remaining 8 bits are used as host IDs. The class C address begins with the numbers 192 through 254.

Note: The actual number of usable host IDs is smaller than the calculated number listed above, because some addresses are reserved, by convention, for specific uses. See the list in the next section, "Reserved IP Addresses."

Reserved IP Addresses

The addresses in the following table are reserved, by convention, and should *not* be used as a device address.

Reserved IP Addresses

Net ID	Host ID	Meaning
all 0's	all 0's	This host
all 0's	host ID	A host on this network
all 1's	all 1's	Limited broadcast (local network)
net ID	all 1's	Directed broadcast (network specific)
net ID	all 0's	Network address
127	anything	Loopback address (should *never* appear on a network)

Addresses not shown in the preceding table should be valid, as long as they identify the host within the given network. See your System Supervisor for the correct address to use.

Network Masks

The server uses a network mask to identify all workstations on the same network. In the absence of subnetting, the network mask is created by using 255 (all 1s) for the network ID address octets and by using 0 for the host ID octets.

On a class C network, the network mask is `255.255.255.0`

On a class B network, the network mask is `255.255.0.0`

On a class A network, the network mask is `255.0.0.0`

Broadcast Addresses

The server uses a broadcast address to send information to all network workstations. In the absence of subnetting, the broadcast address is created by using the network ID address octets and 255 (all 1s) for the host ID octets.

XANTÉ printer default addresses

On a class C network, the broadcast address is `192.9.200.255`

On a class B network, the broadcast address is `192.9.255.255`

On a class A network, the broadcast address is `192.255.255.255`

Subnet Addresses

Subnetting is used frequently to manage traffic between ports on a router more efficiently. Subnetworks are created by using part of the host ID as a subnetwork ID. The balance of the host ID identifies the individual workstations assigned to the sub-network.

XANTÉ Command Center (Macintosh version) allows you to set subnetting information using the Advanced button in the TCP/IP Address dialog box. Check with your System Supervisor for details about your network's subnet addresses.

Set the TCP/IP Address

Your printer's default TCP/IP address should be changed to agree with your network's TCP/IP addresses. Change the address using XANTÉ Command Center or the front panel I/F:IP Address menu. Check with your System Supervisor for the correct TCP/IP address.

See chapter 3 (Macintosh) or 4 (PC) to install and configure Command Center on your host computer.

Note: If you perform a factory reset, the TCP/IP address reverts back to the XANTÉ factory default address.

Using XANTÉ Command Center (PC)

Note: Your PC *must* be directly connected to the printer through a parallel or serial cable to use XANTÉ Command Center. You *cannot* set the commands through a network.

1. If necessary, enable the Line Printer interface using printer front panel menus. See “Interface Control” in chapter 6.

2. Open XANTÉ Command Center by double-clicking its icon.

3. Choose Controller: General: TCP/IP Address.

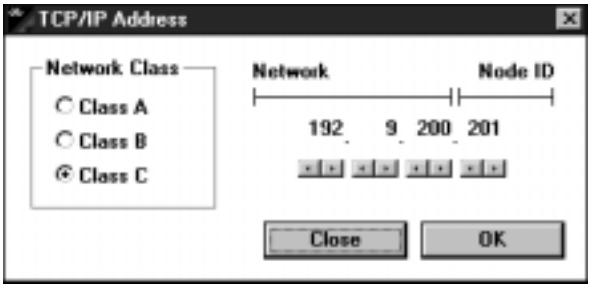

Fig. 5.20 PC TCP/IP Address Window

4. If necessary (check with your System Supervisor), change the network class by clicking the appropriate option button.

5. Change the printer’s default TCP/IP address to the address assigned by your System Supervisor using the scroll bars under each octet.

6. Click OK. The main menu reappears.

7. Choose File: Exit. Command Center closes.

8. Restart the printer to make the new TCP/IP address take effect.

Using XANTÉ Command Center (Macintosh)

1. Open XANTÉ Command Center by double-clicking its icon.

2. Choose Networking: TCP/IP: Address.

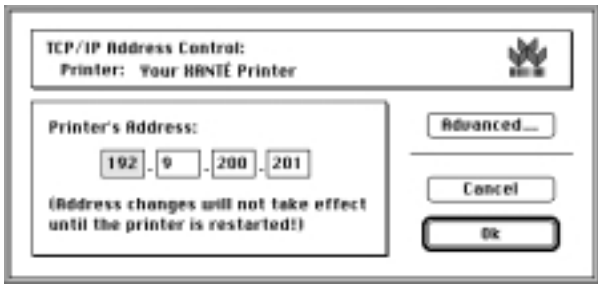

Fig. 5.21 Macintosh TCP/IP Address Control Window

3. Change the printer's default TCP/IP address to the address assigned by your System Supervisor, using the tab key to move to the next octet.

4. Click Ok. Command Center's main menu reappears.

5. If necessary, enable the printer's Line Printer interface. The Line Printer interface is enabled as the factory default.

   a. Choose Networking: TCP/IP: LPR Enable.

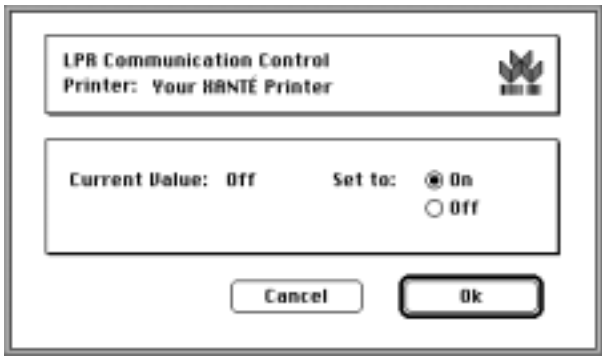

Fig. 5.22 Macintosh LPR Communications Control Window

   b. Click the option buttons to enable (ON) or disable (OFF) the Line Printer interface on your printer.

   c. Click Ok. The main menu reappears.

6. Choose File: Quit. Command Center closes.

7. Restart the printer to make the new TCP/IP address take effect.

Configure the Printer Setup on the Network

There are several UNIX operating systems, including System V (SYSV), Berkeley Standard Distribution (BSD), and Solaris. Each system handles line printer modes differently. Your System Supervisor must configure the print queue, communications, and spool settings for your specific network environment.

Windows NT 4.X Configuration

Windows NT is a cross platform networking system. This section describes how to configure the printer's Ethernet interface for TCP/IP or EtherTalk protocols on a system running Windows NT 4.X.

LPR Port Setup for TCP/IP

After completing the driver installation, use the following procedure to configure your printer for Windows NT 4.X network printing.

1. Make sure that the TCP/IP address has been setup on your printer for your network and that you can PING this address from your PC. If not, see "TCP/IP Addresses" and "Set the TCP/IP Address" earlier in this chapter for details and check with your System Administrator.

2. Click Start: Settings: Printers. Then, right click on the new XANTÉ icon and select Properties.

3. Click the Ports Tab; then, click Add Port. The Printer Ports window appears (fig. 5.23).

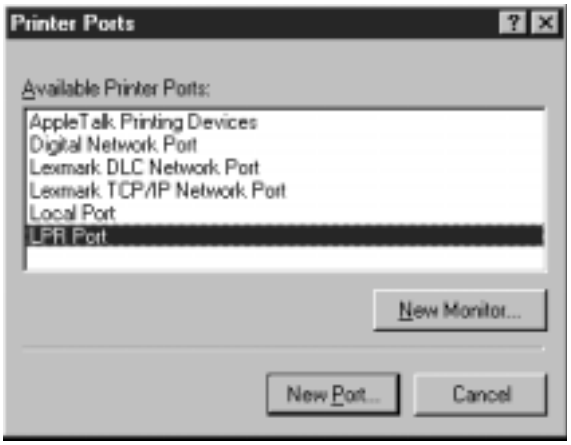

Fig. 5.23 Printer Ports Window

4. Select LPR Port; then, click New Port to bring up the Add LPR Compatible Printer window (fig. 5.24).

   Note: If LPR is not an option, you must log in as the Administrator and select Control Panel: Network: Services and make sure that Microsoft TCP/IP Printing is installed. If not, click Add and select this feature. Then, restart your PC and LPR will appear as an option for this procedure. (You may need the Microsoft NT CD to load this service.)

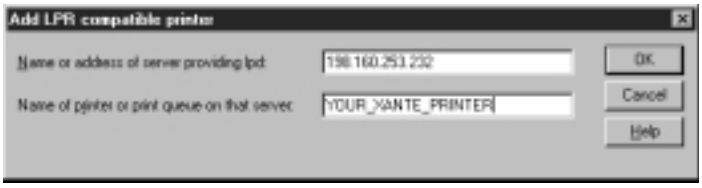

Fig. 5.24 Add LPR Compatible Printer Window

5. Enter the printer's TCP/IP address in the field requesting the name or address of the print server. Then enter the printer name in the field below. Click Close.

6. Select the General tab; then, click Print Test Page and check the printer to see if the Windows NT Test Page printed correctly.

7. Click OK. The Printer Properties window closes.

8. Select File: Close. The Printers window closes.

After installing and configuring the AdobePS printer driver and PPD, see “Configuring the Printer” in chapter 4 to verify that printer interfaces are configured properly.

AppleTalk Setup for EtherTalk

After completing the AdobePS driver installation, use the following procedure to configure your printer for Windows NT 4.X EtherTalk printing.

1. Click Start: Settings: Printers. Then, right click on the new XANTÉ icon and select Properties.

2. Click the Ports Tab; then, click Add Port. The Printer Ports window appears (fig. 5.23).

3. Select AppleTalk Printing Devices; then, click New Port. A window appears listing zone names if you have several AppleTalk zones on your network. If no zone names appear, skip to step 5.

   Note: If AppleTalk Printing Devices is not an option, you must log in as the Administrator and select Control Panel: Network: Services and make sure that Microsoft TCP/IP Printing is installed. If not, click Add and select this feature. Then, restart your PC and AppleTalk Printing Devices will appear as an option for this procedure. (You may need the Microsoft NT CD to load this service.)

4. Click on the desired zone name. A window appears listing printers in that zone.

5. Click on your printer's name. When a prompt appears asking "Do you want to capture AppleTalk printing device," click Yes to make NT a print server for your network.

   Note: If you select Yes, NT hides the AppleTalk name from the Macintosh Chooser. If you select No, the Macintosh can still print directly.

6. Select the General tab; then, click Print Test Page and check the printer to see if the Windows NT Test Page printed correctly.

7. Click OK. The Printer Properties window closes.

8. Select File: Close. The Printers window closes.

After installing and configuring the AdobePS printer driver and PPD, see "Configuring the Printer" in chapter 4 to verify that printer interfaces are configured properly.

NetBEUI Configuration

NetBEUI (NetBIOS Extended User Interface) is the Microsoft Windows networking interface standard for Windows 95 and 98, Workgroups, Microsoft LAN Manager and MS-DOS's Workgroup add-on). On a Windows 95 or 98 system, NetBEUI installs using the procedure later in this section. Configuration consists of simply setting the computer name and a workgroup or domain name.

Note: A NetBEUI setup is limited to 25 or fewer users.

NetBEUI features fast communication, self-tuning performance, low overhead, and very little configuration. However, it is not routable.

NetBEUI Constraints

When you work with your XANTÉ printer and NetBEUI, you need to keep the following constraints in mind.

- NetBEUI allows *only* one PC to send a print job at a time.
- There is a time limit for each NetBEUI job to be processed by the printer and for printing to begin. Once printing begins, the printer cannot accept jobs from other sources.
- Such things as printer errors, jams, open covers, etc. can cause the print job to be lost. For example, an error must be cleared within 3 1/2 minutes after the NetBEUI job begins. Once started, data flow must be constant.
- The NetBEUI buffer has a time limitation of 3 1/2 minutes. This is crucial when dealing with large, complex files which can be lost because of the time out.
- NetBEUI can be affected by Microsoft network protocol internal timeouts. In this case, if the printer repeatedly stalls due to a large job, these internal timeouts may cause the PC to abort the print job.

You can minimize some of the NetBEUI constraints just listed by installing an internal disk drive and setting the NetBEUI's Spool setting to True. This provides free disk space for print job storage before sending the job to be processed, and allows the fully compiled job to be sent from this drive to the printer as a complete unit. In most cases, it guarantees a successful download to the printer.

NetBEUI, originally designed for connection between a server and client, works on the principle that once a connection is made, the sender can transmit the data to the printer. The printer becomes a host PC on the network.

Host Setup

To set up your PC in a NetBEUI environment

1. Go to your desktop and click Start.
2. Select Settings and click Control Panel.
3. Double click Network.

Note: If you already have NetBEUI installed as a protocol, skip step 4.

4. Click Add, Protocol, Microsoft, and NetBEUI. Then, press OK. You may need the Window 95/98 OS CD to install the necessary drivers. If so, insert the CD in your CD-ROM drive and click OK.

   Note: If you already have Client for Microsoft Networks installed as a client, skip step 5.

5. Click Add, Client, Microsoft, and Client for Microsoft Networks. Then, click OK.

6. Click NetBEUI under Network Configuration and click Properties. Under Advanced Properties, select “Set this protocol to be the default protocol.” Then, click OK.

Make sure your PC is connected to the network properly. You will need to restart your computer for the new network changes to take affect.

Note: MS Networks can delay updating the network for a few minutes.

Print Queue Setup

Once your PC is restarted with the new network changes, you can establish a print queue to your XANTÉ printer.

1. Run the Adobe PostScript printer driver installation.

2. Select Network Printer.

3. Click Browse. Click “+” to the left of Entire Network. A domain called XANTÉ Printer should appear if a XANTÉ printer with NetBEUI interface is on the network.

4. Click “+” to the left of XANTÉ printers to see a list of printers.

5. Select the appropriate printer and click “+” next to the selected printer. Highlight the print queue and click OK.

6. Continue through the remaining instructions and select the correct PPD for your printer. A test page will verify that your system is configured correctly.

Your XANTÉ printer is added to the list of available printers.

Default Printer Setup

To select the XANTÉ printer as the default printer

1. Click Start and select Settings and Printer.

2. Right click the printer and select “Set as default.”

Your XANTÉ printer is set as the default printer.

Note: Make sure NetBEUI is enabled on the printer’s front panel in the SETUP :IF: NETBEUI menu.

◊ ◊ ◊

Chapter 6 - Configuration

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Notes

Introduction

This chapter describes configuring printer features. Included are manual settings available through the front panel and advanced features available through PPD options and XANTÉ Command Center.

Note: PPD options override printer default settings for a specific job or for all jobs sent to the printer from your host.

Front Panel

The printer's front panel provides printer status information and allows you to configure some printer features (fig. 6.1).

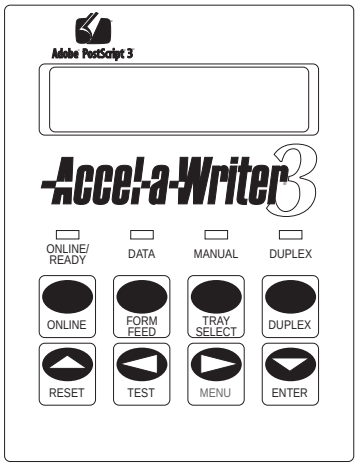

Fig. 6.1 Printer Front Panel

Window

The printer's front panel window displays configuration menu options and messages that indicate printer status, request operator help, and relay error or service information (fig. 6.1).

Status Lights

Printer front panel status lights, or LEDs (Light Emitting Diodes), indicate printer status (fig. 6.1).

Online/Ready LED is on when the printer is ready to receive data. It is off when an engine error occurs or the printer cover is opened.

Data LED is on and does not blink when the printer is receiving data. Blinking indicates that the printer is processing data.

Manual LED is on when the multipurpose feeder is selected.

Duplex LED is on when the printer is in edge or tumble duplexing mode for double-sided printing. It is off when the printer is in simplex mode for single-sided printing. This LED is active only if the duplexer is installed.

Control Keys

Front panel control keys allow you to configure some printer features and to access the configuration menus.

Online key is used to take the printer on and off line. The window reads `READY/IDLE` when the printer is on line or `OFFLINE` if it is off line. The printer must be on line to receive data from your computer.

Form Feed key allows you to feed a blank page through the printer. Some applications do not issue a form feed command at the end of a page. If this happens, take the printer off line and press the Form Feed key; after a blank page feeds, press the Online key to put the printer back on line.

Tray Select key allows you to change the default paper tray. Press once to display the current tray selection. Press the Tray Select key to toggle between the available trays.

Note: Tray options do not appear in all capital letters in the window.

Duplex key is used to toggle between single-sided, edge-duplex, or tumble-duplex printing. The Duplex LED is lit when duplexing is active.

Reset key allows you to return to the previous menu level when using configuration menus. To cancel a job that the printer is processing, take the printer off line and press the Reset key.

Test key allows you to scroll back through options on a menu level when using the configuration menus. To print a start-up page, take the printer off line and press the Test key. Then press the Online key.

Menu key allows you to enter the menu structure when `READY/IDLE` or `OFFLINE` appears in the window and to scroll forward through menus and options.

Enter key allows you to select the menu or option displayed in the window. When you select an option, the option name switches to all capitalized letters in the window.

Note: See “Interface Control” in this chapter for using the control keys to set the IP address.

Configuration Menus

Use configuration menus to set printer features and interfaces defaults. This section describes using the configuration menus. The three-fold quick reference sheet in the back of this manual illustrates the configuration menu structure.

Note: PPD options override printer default settings for a specific job or for all jobs sent to the printer from your host.

Selecting Menu Options

The following example explains changing the printer's default resolution from 1200 x 1200 dpi to 600 x 600 dpi using control keys and configuration menus.

1. Make sure the printer is on and idle.
2. Press the MENU key until `SETUP:MISC` appears.
3. Press the Enter key to enter the Miscellaneous menu.
4. Press the Menu key until `MISC:DPI` appears in the window.
5. Press the Enter key to enter the DPI menu.
6. Press the Menu key until `dpi:600 600` appears.
7. Press the Enter key to select 600 dpi as the default. The selection changes to all capital letters, indicating that is the current default.
8. Press the On Line key. `READY/IDLE` appears in the window.

The printer's default resolution is now 600 x 600 dpi.

Resetting to Factory Defaults

There are two levels for resetting to factory defaults: Level 1 (full reset) and Level 2 (partial reset).

Level 1 Reset

Level 1 resets all printer options to factory default settings.

To do a level 1 reset, turn off the printer, hold in the Online, Tray Select, and Test keys, turn on the printer. Release the keys after RESET 1 appears in the window.

Level 2 Reset

Level 2 resets printer options to factory default settings except for printer margins, gamma settings, Novell network print server parameters, IP network parameters, and More X-ACT settings.

To do a level 2 reset, turn off the printer, hold down the Online and Tray Select keys. Release the keys after RESET 2 appears in the window.

Menu Structure

Configuration menus allow you to configure many printer feature defaults and the printer interfaces. The main configuration menu groups are the Miscellaneous (MISC), the Interface (I/F), and the HP PCL5 emulation (PCL5) menu groups (fig. 6.2). Use Miscellaneous Menus to set printer feature defaults. Use Interface menus to set printer RS232, parallel, LocalTalk, and Ethernet interface defaults. Use the PCL5 menu to set HP PCL5 and HP-GL 7475A emulation defaults.

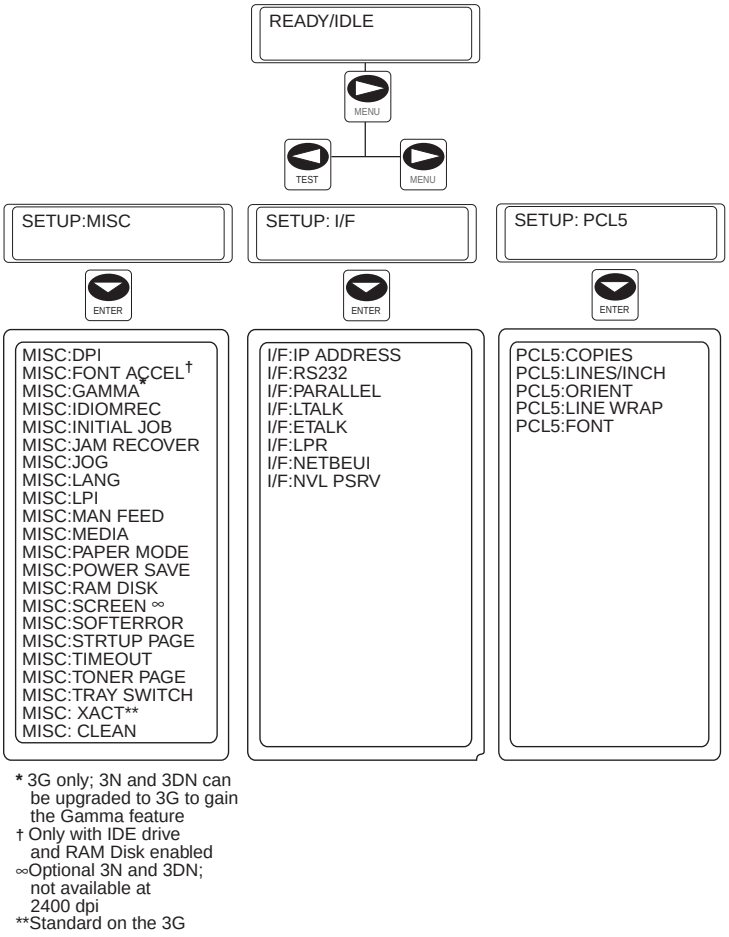

Fig. 6.2 Main Menus

The PPD

The PostScript Printer Description (PPD) allows you to select many printer feature settings from your application's Print dialog box. These settings override printer default settings and other software settings. You can customize printer features for each job or for all jobs sent to the printer from your host without resetting printer front panel menus.

For these options to be available, the Adobe PostScript printer driver and your printer's PPD must be installed and configured properly. See chapter 3 (Macintosh) or 4 (PC) for details.

In most applications, printer specific options in the PPD are accessed through the Device Options tab in Windows 95 and 98, and the Printer Specific Options menu on a Macintosh.

Selecting PPD Options (Macintosh)

To configure a printer feature from the Print dialog box

1. Install and configure the AdobePS printer driver and your printer's PPD following the instructions in chapter 3.

2. Choose File: Print. The Print dialog box appears.

3. Make sure your printer is selected in the Printer drop down menu; then, click General to display the list of options (fig. 6.3).

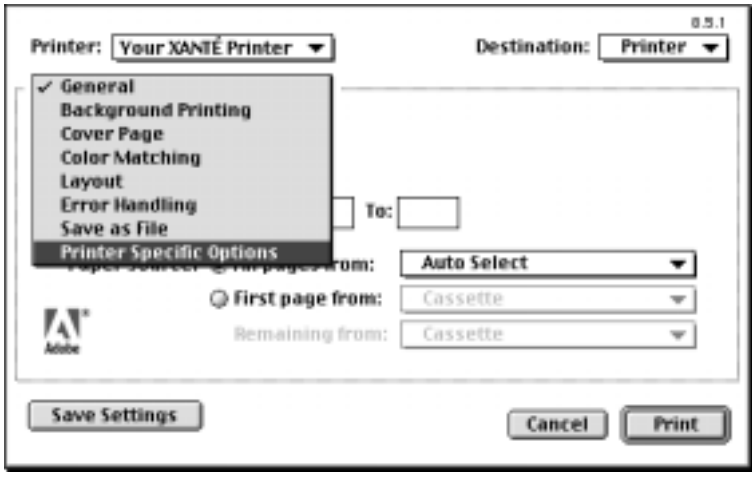

Fig. 6.3 Adobe Options Menu in the Print Dialog Box

4. Choose Printer Specific Options. The printer option menus appear (fig. 6.4).

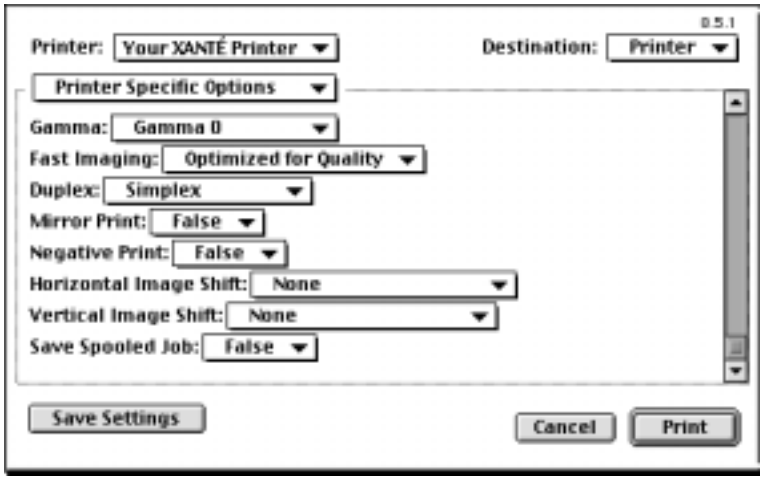

Fig. 6.4 Printer Specific Options Menu

5. Use the right scroll bar to locate the option; then, use the option's drop down menu to select its setting. Repeat to configure other printer options.

6. Click Save Settings to save the Print dialog box settings as the defaults for all jobs sent to the selected printer.

7. Click Print to send the file to the printer.

Selecting PPD Options (Windows 95 and 98)

To configure a printer feature from the Print dialog box

1. Install and configure the AdobePS printer driver and your printer's PPD following the instructions in chapter 4.

2. Choose File: Print. The Print dialog box appears.

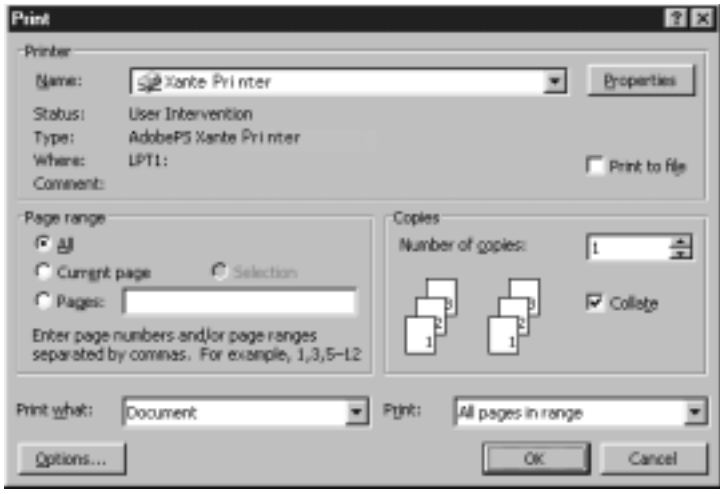

Fig. 6.5 Windows 95 and 98 Print Dialog Box

3. Make sure your printer is selected in the Name box (fig. 6.5); then, click Properties.

4. Click the Graphics tab to set the Resolution option.

5. Click the Device Options tab to set other printer options.

Fig. 6.6 Windows 95 and 98 Device Options Tab

a. Use the right scroll bar to locate the feature in the Printer features box. Highlight the feature to display the options in the Change Setting for box (fig. 6.6).

b. Select the setting from the drop down menu in the Change Setting for box.

c. Click Apply after you have made the desired changes.

Note: For example, to change the printer memory setting, scroll through the Installable options until you see VMOption. Highlight it; then, select the amount of memory on the printer (see the memory size listed on the printer's start-up page). Click Apply.

6. Click OK. The Print dialog box reappears.

7. Click OK to send the file to the printer.

Selecting PPD Options (Windows NT 4.0)

To configure a printer feature from the Print dialog box

1. Install and configure the AdobePS printer driver and your printer's PPD following the instructions in chapter 4.

2. Choose File: Print. The Print dialog box appears (fig. 6.7).

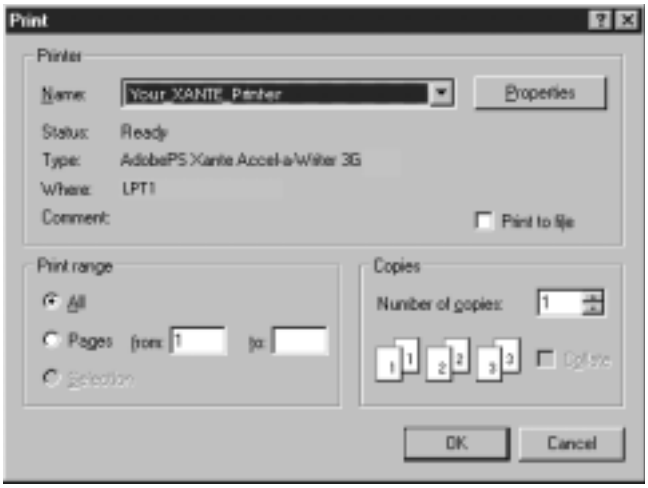

Fig. 6.7 Windows NT 4.0 Print Dialog Box

3. Make sure your printer is selected in the Name box in the Print dialog box; then click Properties.

4. Click the Advanced tab to set printer options (fig. 6.8).

Fig. 6.8 Windows NT 4.0 Advanced Tab

5. Highlight the feature in the top box; then select the setting from the options in the bottom box (fig. 6.8).

6. Click OK. The Print dialog box reappears. Then, click OK to send the file to the printer.

PPD Menus

PPD settings override printer default settings. The AdobePS printer driver and your printer's PPD must be installed and configured properly for PPD options to appear in your application's Print dialog box. See "Adobe PostScript Printer Drivers" in chapter 3 (Macintosh) or 4 (PC) for details.

On a Macintosh, use the Chooser's Auto Setup feature to set installable options to agree with the printer's configuration. To change PPD menu defaults, use the Print dialog box Save Settings button. See "Selecting PPD Options (Macintosh)," earlier in this chapter.

On a PC, PPD menu defaults and the installable options are set during PPD configuration. See "Configuring the PPD for Windows 95, 98, or NT 4.X" in chapter 4.

The following chart lists features that can be configured from the Print dialog box.

Accurate Screens	Mirror Print
Duplex†	Negative Print
Enhanced Screens*	Resolution
Fast Imaging	Save Spooled Job
Gamma*	Smooth Shading
Jog◊	Tray Switch §

* 3G
† Optional on 20 ppm printers
◊ Only with Duplexer
§ PC Menu only

Note: Some applications require additional configuration to access certain features. See your application documentation and the appendix B, "Application Notes and Page Design."

Configuring Printer Features

Printer interface and features are set using front panel keys and menus, PPD options in your application Print dialog box, and XANTÉ Command Center. This section describes available printer features and their configuration.

Accurate Calibration Technology (X-ACT)

X-ACT (XANTÉ's patented Accurate Calibration Technology) allows you to calibrate your printer in two ways. You can calibrate printer line lengths using the front panel MISC:XACT menu. You also can use XANTÉ Command Center's More X-ACT menu to calibrate line lengths as well as correct inaccuracies in printing width, height, skew, and angle. X-ACT is part of the Accel-a-Writer 3G's Graphic Software package.

Because of manufacturing variations and usage, a printer may not print lines with the exact dimensions specified by the application. X-ACT allows you to calibrate your printer to compensate for these differences. See "Procedures" in chapter 3 (Macintosh) or 4 (PC) for instructions.

Accurate Screens

To maximize processing resources, your printer calculates the line screen from lpi and angle settings similar, but not necessarily identical, to the settings specified in your application. The Accurate Screens feature allows you to override this approximation and use the exact settings specified in your application to calculate the line screen. When this feature is enabled, there may be an increase in processing time because of additional demand on printer resources.

Set Accurate Screens from your application Print dialog box.

- False, the factory default, disables Accurate Screens and uses the printer's standard line screen calculation.
- True allows the printer to build the line screen based on the specific lpi and angle settings in your application.

Note: Accurate Screens is active in the PPD only if the Enhanced Screens menu is set to Normal.

Clean (Transfer Roller Cleaning)

Use the MISC:CLEAN menu to have the printer perform an approximately 25 second cleaning of the transfer roller. Make sure `READY/IDLE` displays before selecting START from the Clean menu. `CLEANING` displays during the cleaning cycle; at the end of the cycle, a blank page prints. When `READY/IDLE` appears again, the cleaning process is complete and the printer is ready to accept a new job.

Duplexer

If the duplexer (3DN; 3N and 3G optional) is installed, you can select from three duplexing options using either the printer's front panel Duplex key or your application's Print dialog box.

- **Simplex** standard printing on one side of the page.
- **Edge-duplex** double-sided printing in edge to edge or book style (fig. 6.11).
- **Tumble-duplex** double-sided printing in a flip chart style (fig. 6.11).

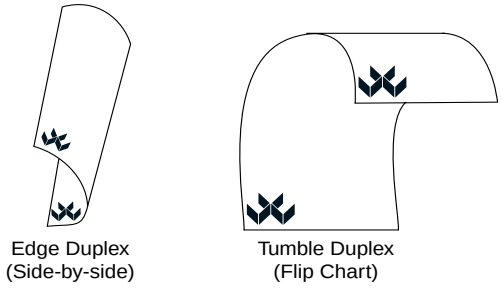

Fig. 6.9 Edge and Tumble Duplexing

The Duplex key allows you to scroll through options in the front panel window. The Duplex LED is lit when either Edge-duplex or Tumble-duplex is selected.

The duplexer must be configured as an option in the PPD before you can select it through the Print dialog box. See chapter 3 (Macintosh) or 4 (PC) for details.

Note: The duplexer option is not available on the Accel-a-Writer 3G if a 2400 dpi resolution or NEIT upgrade is installed. Also, duplexing RAM requirements vary according to media size. See “Printer Memory Requirements” in chapter 9.

Enhanced Screening Technology

XANTÉ’s Enhanced Screening Technology (3G) allows you to increase the number of levels of gray produced for a line screen setting.

Set Enhanced Screening from the MISC:SCREEN configuration menu or the Print dialog box Enhanced Screens menu. Normal, the factory default, uses the line screen set in your application. Enhanced Screening options are 145 Gray Levels, 197 Gray Levels, and 256 Gray Levels. The following chart lists the line screen setting for each option at different resolutions.

Levels	Line Screens		
of Gray	600 dpi	1200 dpi	2400 dpi
145	70 lpi	140 lpi	282 lpi
197	60 lpi	120 lpi	242 lpi
256	53 lpi	106 lpi	212 lpi

Note: Accurate Screens is active in the PPD only if the Enhanced Screens menu is set to Normal.

Fast Imaging

Adobe PostScript 3’s Fast Imaging feature allows you to select from two methods of image data compression for faster printing when image quality is not the primary concern.

Set Fast Imaging from your application Print dialog box.

- None, the factory default, prints at normal speed and with no data compression.
- Optimized for Quality compresses image data for faster printing than normal but with some (usually not noticeable) loss of image quality.
- Optimized for Speed implements a greater degree of data compression to provide the fastest print time but with the possibility of a noticeable loss of data quality.

Note: Optimize selections do not function if the print job contains an image that is masked or rotated to anything other than 0°, 90°, 180°, or 270°.

Font Accelerator

Font Accelerator allows you to set aside a portion of RAM disk to store fonts for quick system access. Font Accelerator automatically loads the most recently used fonts from the printer's optional hard disk into the RAM disk. This eliminates time usually required to access fonts from the hard disk. The Font Accelerator menu is active only if fonts are downloaded to an optional hard disk on the printer and RAM disk is enabled for 1 MB or more.

Set Font Accelerator from the MISC:FONT ACCEL configuration menu. Options indicate the percentage of RAM disk that the Font Accelerator can use. The factory default is 100%.

Halftone Calibration Technology (Gamma)

XANTÉ's Halftone Calibration Technology (3G) allows you to adjust printer output for ink, media, file, and environmental conditions. For example, if a scanned image is too dark, you can select a new gamma setting to lighten and enhance the details. Gamma corrections bring out details that can be lost when printing at higher line screens or when dark photos are scanned.

XANTÉ provides seven standard gamma correction curves and you can create up to seven custom curves. Use the MISC:GAMMA configuration menu or the Print dialog box Gamma menu to select the desired curve.

XANTÉ Gamma curves 1 through 5 progressively lighten midrange grayscale values in an image. Gamma 0, the factory default, makes no change to the image and Gamma 6 produces a reverse (negative) image without changing the image in the application. The graphs in figure 6.12 show the changes to the midrange gray levels for Gamma curves 0 through 6.

You may want to create and download up to seven custom gamma curves to calibrate your printer for specific conditions. For example, to set up a gamma curve for press output, use the following process:

1. Set the desired final output resolution on the printer's front panel.
2. Print the calibration page to Myriad film on your printer.
3. Run the film output through the FilmStar 2 to increase the transmissive density.
4. Burn the film image to Myriad plate.
5. Run the plate on the press.
6. Measure the output using a densitometer, linearize the data, and create and save a new gamma curve.

Also, linearization can be used to the level of accuracy you need. For example, you may want to linearize for the plate but do not feel you need to compensate for dot gain on the press. In this case, in step 2 you simply print the calibration page on a Myriad plate and then skip to step 6.

See "Calibration with a Densitometer (Gamma)" in chapter 3 (Macintosh) or 4 (PC) about creating custom gamma curves.

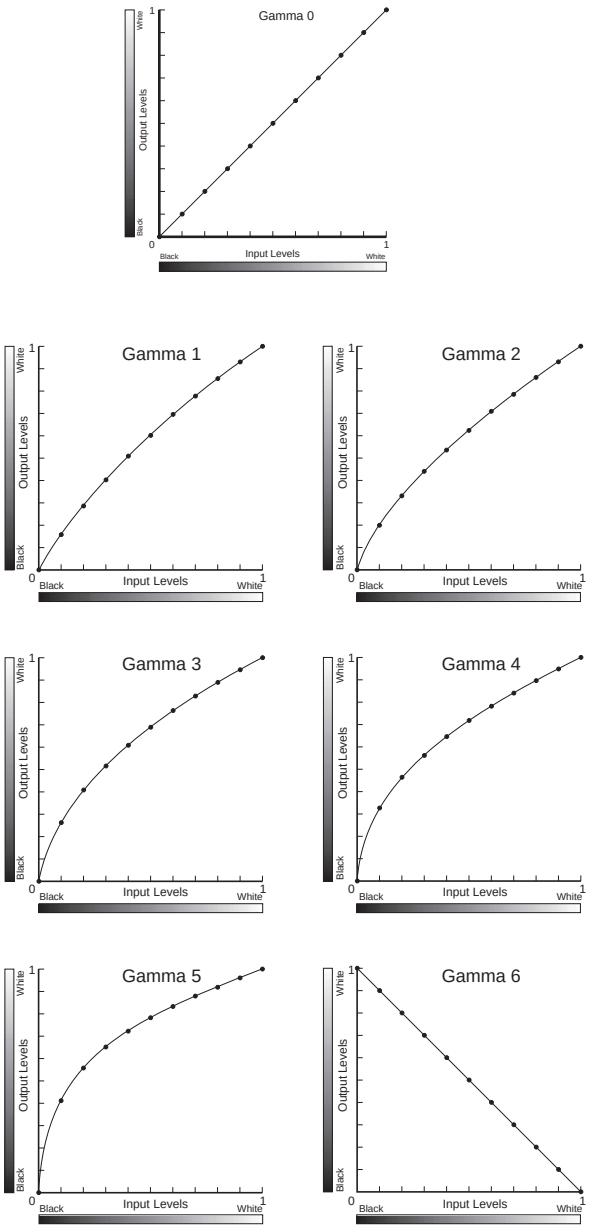

Fig. 6.10 Gamma Corrections 0 through 6

Idiom Recognition

Idiom Recognition allows you to use newer, more efficient PostScript 3 commands in place of older PostScript commands for the same action. This feature recognizes the older commands and substitutes the newer more efficient ones for processing.

Set Idiom Recognition using the MISC:IDIOMREC configuration menu. Yes, the factory default, enables this feature; No disables it.

Initial Job

The Initial Job feature allows you to direct the printer to execute a Sys/Start file from an optional hard disk each time the printer is turned on.

Set Initial Job from the MISC:INITIAL JOB configuration menu. Yes, the factory default, directs the printer to look for a Sys/Start file during the initialization process. No disables this feature.

Interface Control

Your printer features four standard simultaneously active interfaces. The LocalTalk port, the serial (RS232) port, the parallel port, and the Ethernet port allow you to send files from Macintosh and PC computers concurrently. The Ethernet port supports EtherTalk, Novell Print Server, NetBEUI, and TCP/IP (LPR). See chapter 5 about configuring the Ethernet interface for your network environment.

Use the Interface (I/F) configuration menus to set printer interface options.

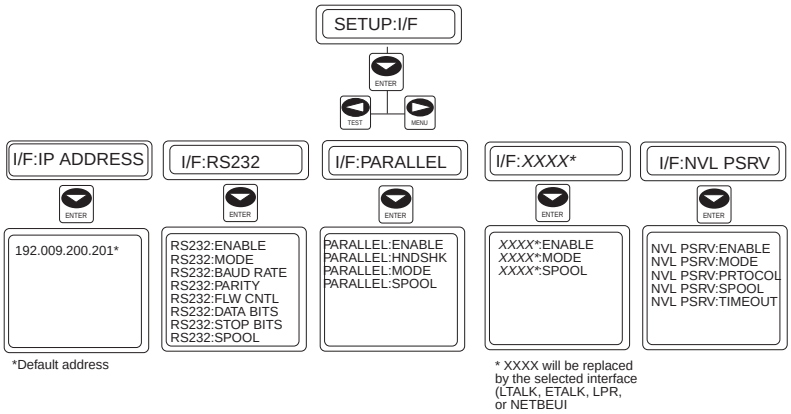

Fig. 6.11 Interface Menus

Enable Menus

Use Enable menus to enable (Yes) or disable (No) each interface. The LocalTalk, RS232, and parallel interfaces are enabled as factory defaults. Factory defaults for the Ethernet interface are enabled for EtherTalk and LPR and disabled for Novell Print Server.

Mode Menus

Use Mode menus to select the printer mode for files sent across each interface. RS232 and parallel Mode menus allow you to select from the following options:

- PostScript Standard (PS STD)
- PostScript Binary (PS BIN)
- PostScript Tagged Binary Communication Protocol (PS TBCP),
- HPGL (HP-GL) emulation
- HP PCL5e (PCL5) emulation
- Automatic Interface Switching (AIS RAW)
- Automatic Interface Switching Binary (AIS BIN)
- Automatic Interface Switching Tagged Binary Communication Protocol (AIS TBCP).

The LocalTalk, EtherTalk, LPR, and Novell Print Server are set for the PostScript Standard (PS STD) printer mode. PS STD is the factory default for all interfaces except parallel, which is set to PS TBCP.

Spool Menu

Use Spool menus to enable (YES) or disable (NO) the spooling feature on each interface. Spool menus only appear if an optional IDE disk is installed. The factory default is No for all interfaces. See "Spooler" in chapter 3 (Macintosh) or 4 (PC) for spooling details.

RS232 Configuration

When using the RS232 port, you must configure the printer and PC to use the same baud rate, parity, flow control, data bit, and stop bit settings.

Baud rate is the rate at which serial data is sent between the computer and printer. The Baud Rate menu allows you to select rates of 1200, 9600, and 19200. The factory default is 9600.

Parity is used to check for transmission errors by comparing the group of data bits sent to the group received. A loss of data during transmission usually results in a change to the group size. Parity options are None (the factory default), Even, Odd, Mark, and Space.

Flow control is the mechanism the printer uses to signal the computer that it is ready to accept data. The Flow Control menu allows you to select XON/XOFF (software) or DTR (hardware) flow control. The factory default is XON/XOFF.

The Data Bits menu allows you to select either 7 or 8 (the factory default) data bits.

The Stop Bits menu allows you to select either 1 (the factory default) or 2 stop bits.

Parallel Configuration

When using the Parallel interface, set the Handshaking menu (PARALLEL:HNDSHK) for handshaking mode used on your system. Handshaking options are Auto (Automatic), Compat (Compatible), Bidi (Bidirectional), and ECP (Enhanced/Extended Capabilities Port). The factory default Auto.

Novell Print Server Configuration

When using the Novell Print Server interface, set the printer for the NetWare protocol frame type used on your network. You can also specify a printer timeout on the network.

The Protocol Menu allows you to select 802.3, which is the default packet type for NetWare versions 3.12 and up, or 802.2 (NO SNAP), which is the default packet type for NetWare versions prior to 3.12, as the Novell protocol frame type used on your network. The factory default is 802.3.

The Timeout menu allows you to set a timeout for the Novell Print Server emulation. If the printer cannot locate an assigned file server during the selected time, the Novell Print Server emulation is disabled. When the file servers are active on the network again, enable the Novell Print Server interface using XANTÉ Command Center or the printer's front panel. Options are Never and 5 minute increments to a maximum of 30 minutes (the factory default).

IP Address Configuration

When using the IP Address interface, use the keys on the front panel to set the address as follows:

- Reset key increases the current number flashing by one.
- Menu key moves to the next number to the right of the current number flashing.
- Test key moves to the next number to the left of the current number flashing.
- Enter key accepts new address (if valid) and returns to I/F: IP Address menu. The menu will display a message if the address entered is invalid.

Note: You must turn the printer off and restart it for the new IP address to take effect.

Jam Recover

The Jam Recover feature reprints the last page processed after a paper jam is cleared.

Set Jam Recover from the MISC:JAM RECOVER configuration menu. Options are Yes to enable and No (the factory default) to disable this feature.

Note: If you must turn off the printer to clear a paper jam, Jam Recover is not effective because all print job information in RAM is lost.

Language Options

Language options allow you to select the language for the printer's front panel window. Set the display language from the MISC:LANG configuration menu. English is the factory default; other options are Spanish (Espanol), French (Francais), German (Deutsch), and Japanese.

Lines Per Inch (LPI)

Lines per inch settings allow you to control the number of gray levels and enhance the resolution quality of your printed images.

Usually you set lines per inch through your application or you can use the LPI option in Command Center's Linearization program. However, when LPI is not a software option, you can use the front panel MISC:LPI configuration menu. Line screen options range from 5 to 210 lines per inch with a factory default of 85 lpi.

Media

Media options in the front panel allow you to select the default media and set configurations for specific media. The MEDIA: DEFAULT menu allows you to select the default media for your printer. Media options are Paper (the factory default), Film, Hvypaper (heavy paper), Hvyfilm (heavy film), and five user defined types of media.

Note: Throughout this document, all references to media are shown as PAPER (the factory default). The same menu settings apply to Film, Hvypaper (heavy paper), Hvyfilm (heavy film), and five user-defined types of media.

The MEDIA:CONFIG menu allows you to select media types and choose submenus to configure that media's Density (Positive Film Technology), EP1 (toner control), EP2 (humidity control), Fuser Temperature, and NEIT (if available).

Positive Film Technology (Density)

Positive Film Technology allows you to control the toner intensity for positive film output. The amount of toner applied to a positive image increases as the PAPER:DENSITY configuration menu settings increase from 0 to 20. The default setting depends on the selected media. The default for paper and film it is 7.

This menu is active only if Negative Print is set to False in the Print dialog box.

Electrophotography (EP1, Toner Control)

The PAPER:EP1 menu helps reduce toning by controlling the level of toner transferred from the toner drum to the media. Options are 0 up to 15. The default setting depends on the selected media. The default setting for paper and film is 10.

Electrophotography (EP2, Humidity Control)

The PAPER:EP2 menu allows you to make adjustments for changes in humidity during printing, thereby reducing ghosting. Humidity can affect toning on plates and the density on negatives.

Options are 0 to 10. The default depends on the selected media; the defaults are 5 for paper and heavy paper, and 3 for film and heavy film.

Note: This setting will affect the density of your halftones, so you may need to relinearize if you change the EP2 setting.

Fuser Temperature Control

The PAPER:FUSER menu allows you to control your printer's fuser temperature for different media types.

Select Cool, the factory default, when printing to Myriad film, paper, envelopes, labels, and transparencies. Select Warm for heavy paper and heavy film.

Negative Enhanced Imaging Technology (NEIT)

Traditionally laser printers were designed to print positive images. XANTÉ's innovative, patented Negative Enhanced Imaging Technology (NEIT) is the first technology to address the problems typically associated with producing negative images on a laser printer. NEIT is an option only on the Accel-a-Writer 3G printer.

Previously, when a negative print was done on a laser printer, gray scales were distorted and small spaces in text and lines were obscured by toner bleed. NEIT addresses these problems, allowing you to adjust toner application when producing a negative image to obtain crisp, clean lines and text. The image on the right in figure 6.12 illustrates how NEIT can improve a negative print.

Times Rom
Times Roman Italic
Times Roman Italic 6 pt. Negative Print
Times Rom
Times Roman Italic
Times Roman Italic 6 pt. Negative Print

Fig. 6.12 NEIT Difference

Set NEIT from the PAPER:NEIT configuration menu. As menu settings increase from 0 to 20, the amount of plugging decreases. The factory default is 10.

This menu appears only the NEIT upgrade is installed and is active only if Negative Print is set to True in the Print dialog box.

Note: NEIT adjusts your printer engine speed to 10 ppm (letter/A4).

Media Weight

Media Weight allows you to designate the type of media used and to access correct temperatures for that media. Set Media Weight from your application Print dialog box. Options are Paper, Hvypaper (heavy paper), Film, Hvyfilm (heavy film), and five user defined media weights.

Note: You can create custom gamma curves to calibrate or adjust your printer for specific media weights. For details see "Halftone Calibration Technology (Gamma)" earlier in this chapter and see "Calibration with a Densitometer (Gamma)" in chapter 3 (Macintosh) or 4 (PC).

Mirror Print

Mirror Print allows you to produce a mirror image which is reversed left to right (fig. 6.13). This type of image is used to produce right reading documents required for imaging silk screens or metal plates.

Set Mirror Print from your application Print dialog box. To ensure the highest quality when producing mirror images, use this menu in the Print dialog box rather than an application setting. True enables this feature and False (the factory default) disables it.

Fig. 6.13 Mirror Image

Multipurpose Feeder Media Sizes

Set the media size used in the multipurpose feeder from the MISC: MAN FEED (Manual Feed) configuration menu. The factory default media size is Letter; other options are

Legal	11 x 17	Monarch Envelope
A4	A3	DL Envelope
B5	Executive	C5 Envelope
B4	Com10 Envelope	Universal (13 x 18.5)

To print on a media size not listed in the Manual Feed menu, select the paper size through the application. See “Media Sizes” in chapter 7 for a description of these media sizes.

Negative Print

Negative Print allows you to produce an image with black and white reversed (fig. 6.14). This type of image is used in offset printing.

Set Negative Print from your application Print dialog box. To ensure the highest quality when producing negative images, use this menu in the Print dialog box rather than an application setting. True enables this feature and False disables it.

Fig. 6.14 Negative Print

Paper Mode

The paper cassette media guides activate cams which notify the printer of the paper size. Because some international and North American paper sizes are very similar in size, the MISC:PAPER MODE configuration menu specifies whether the cassette setting is for North American paper sizes (US) or for International paper sizes (Euro).

PCL Emulation Control

Set HP PCL5 emulation options using the PCL5 menus. See "Working with PostScript and Emulations" later in this chapter and see appendix A, "Supported HP PCL5 and HP-GL 7475A Commands" for more details.

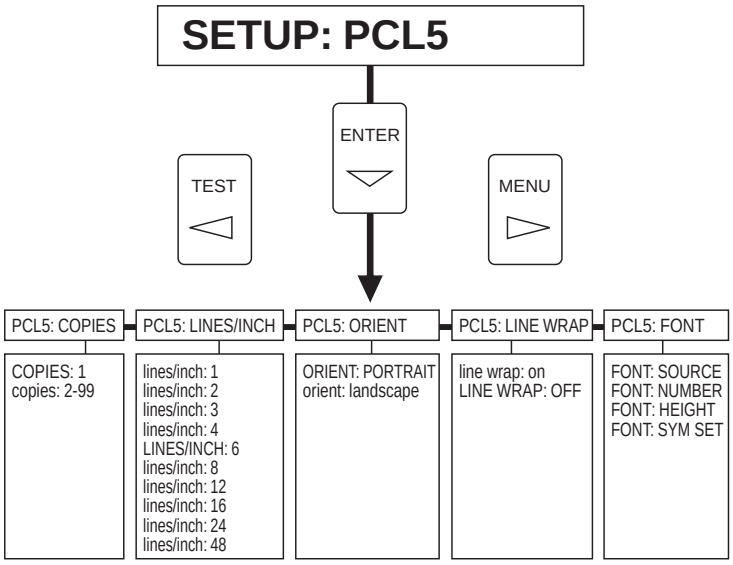

Fig. 6.15 PCL5 Menu

Copies

Use the Copies menu to select from 1 (the factory default) to 99 copies to print.

Use the Test ← key to lower or the Menu → key to raise the value to the desired amount. Then, press the Enter ↓ key to confirm the selection.

Lines/Inch

Use the Lines/Inch menu, PCL5:LINES/INCH to select from 1 to 48 lines per inch (lpi) to print. The factory default is 6.

Use the Test ← key to lower or the Menu → key to raise the value to the desired amount. Then, press the Enter ↓ key to confirm the selection.

Orient

Use the Orient Menu to select the page orientation. Options are Portrait (the factory default) and Landscape. Portrait (tall) printing goes across the narrower dimension of the page; landscape (wide) printing goes across the wider dimension of the page.

Line Wrap

Use the Line Wrap menu to enable (On) or to disable (Off) line wrap. When line wrap is enabled, text will automatically continue on the next line when it reaches the end of the current line. The factory default is Off.

Font

The Font menu contains Source, Number, Height, and Sym Set submenus.

Source

Use the Source menu to designate internal fonts for use by the printer. This menu is for future developments and should not be changed. The factory default is the letter l.

Number

Use the Number menu to designate a font number for the printer's use. This menu is for future developments and should not be changed. Numbers run from 0 (the factory default) to 67.

Height

Use the Height menu to designate the font's height in points.

Sym Set
Use the Sym Set menu to select the symbol set for the desired font from the following list. The factory default is ROMAN-8.

ROMAN–8	desktop	iso-11
em 94 l1	ps text	iso-15
em 94 l2	vn intl	iso-17
em 94 l5	vn us	iso-21
pc-8	ms publ	iso-60
PC-8 dn	math-8	iso-69
PC-850	ps math	windows
PC-852	vn math	
PC6tk	pi-font	
win l1	legal	
win l2	iso-4	
win l5	iso-6	

Power Save

Power Save conserves power when the printer is not in use. When enabled, the feature puts the printer into a low-power state after 30 minutes of inactivity.

Set Power Save from the MISC:POWER SAVE configuration menu. Off, the factory default, disables this feature; On enables it.

Print Job Offset (Jog)

Print Job Offset (Jog) is available only when the duplexer (3DN; 3N and 3G optional) is installed, but it can be used whether the duplexer is set to simplex or one of the duplex options. The feature distributes print jobs into the output tray with an offset of approximately 1.00" (25 mm), allowing you to separate jobs easily.

Set this feature from the MISC:JOG configuration menu or from the Print dialog box's Jog menu. Yes (True in the Print dialog box) enables this feature and No (False in the Print dialog box) disables it. The factory default is No.

Printer Timeout

The Timeout feature allows you to select the number of seconds the printer waits for additional data before cancelling a job and returning to the READY/IDLE state.

Set Timeout from the MISC:TIMEOUT configuration menu. The factory default of 40 seconds (40 Sec) is an average setting. Set timeout according to the type of files you send. Use a low setting for small, simple files to prevent an indefinite tie-up on one job. Use the 300 or Never setting for large files, such as graphic intensive or CAD (Computer Aided Design) files, to allow enough processing time. With the NEVER selection, the printer does not timeout; it waits until it receives additional data or until the printer is reset.

RAM Disk

RAM Disk allows you to set aside a section of printer RAM to be used as a read/write device for implementing XANTÉ's Font Accelerator.

Set RAM Disk from the MISC:RAM DISK configuration menu. 0, the factory default, disables RAM disk. Options are in 1 MB increments to the maximum available RAM, which is the installed RAM minus 32 MB (the base amount of RAM required by the system). The printer must be restarted for the RAM disk setting to become active.

Resolution Options

The standard configuration is 600 x 600 dpi for the Accel-a-Writer 3N and 3DN with a 1200 x 1200 upgrade available. The 3G has standard 600 x 600 and 1200 x 1200 dpi resolutions, which print at 20 page per minute for letter/A4 size paper. The optional 2400 x 2400 upgrade for the 3G includes all standard Accel-a-Writer 3G features and provides 10 page per minute printing of letter/A4 size paper at all three resolutions.

Note: See “Printer Memory Requirements” in chapter 9 about the RAM required to print at higher resolutions.

Set available resolutions using either the MISC:DPI configuration menu or the Print dialog box’s Resolution menu.

If the resolution upgrade is installed and adequate RAM is available, but the upgrade cannot be selected in your application Print dialog box (it is grayed out), RAM may not be configured properly in the PPD. See the section on configuring the PPD for your operating system in chapter 3 (Macintosh) or 4 (PC).

Smooth Shading

Smooth Shading allows you to use the Adobe PostScript 3 method of rendering gradient blends. Smooth Shading produces the highest quality image at the selected resolution. For some images, PostScript files created with Smooth Shading are smaller and print faster than those created using PostScript Level 2.

Set Smooth Shading from your application Print dialog box. Off, the factory default, disables this feature. Options of Maximum, High, Medium, Low are available.

Soft Error

Soft Error alerts you that the printer requires attention. Examples are low toner and low paper messages.

Set Soft Error using the front panel MISC:SOFTERROR configuration menu. Yes, the factory default, enables this feature; No disables it.

Note: While soft error messages are very helpful, occasionally some software misinterprets the messages. If you run into problems with a particular software, try disabling this feature.

Spooler

If your printer has an optional hard drive, you can use the spooler to place up to 250 print jobs into a queue on that drive. The spooler reduces return to application time for a print job by freeing the communications channel between the computer and the printer.

Save Spooled Job allows you to retain print jobs in the spooler's queue indefinitely. These jobs can be reprinted from the queue, eliminating the time required to process the file and send it to the printer.

When a job is sent over a spooled interface, it is not processed immediately. It is assigned a job ID and added to the end of the spooler's job queue on the printer's hard drive. Jobs can be spooled to the hard drive while the printer is performing normal PostScript processing.

When the printer is in the READY/IDLE state (no jobs are currently being processed), jobs are processed from the spooler's job queue in the order they were received.

After the job is processed, it is deleted from the spooler's job queue. If Save Spooled Job is enabled, the job is saved to the printer's hard disk for future use.

To use Save Spooled Job, the spooler must be enabled on the printer port you are using, the spooler option must be configured in the PPD, and the printer must have a hard disk attached. Set Save Spooled Job from your application Print dialog box. True enables the feature and False disables it.

Control spooling to each printer interface independently using either the Interface configuration menus or XANTÉ Command Center. See chapter 3 (Macintosh) or 4 (PC) about configuring the PPD and using the spooler. See "Interface Control" earlier in this chapter for information about configuring the spooler on the printer's port.

Start-up Page

The Start-up Page feature prints a page that lists the selected resolution, installed RAM, hard disk identities, page count, enabled interfaces, and network information (if the Ethernet upgrade is installed) each time the printer is turned on.

Set Start-up Page from the MISC:STRTUP PAGE configuration menu, from XANTÉ Command Center on a Macintosh, or by downloading Adobe PostScript files to the printer.

In the MISC:STRTUP Page menu, Yes (the factory default) enables the feature and No disables it. In XANTÉ's Macintosh Command Center, the General: Startup Page menu allows you to turn the Start-up Page feature on or off or to print this page on demand.

XANTÉ Utilities CD-ROM contains the PostScript files Startpg.on and Startpg.off. Download these files to the printer to enable (Startpg.on) or disable (Startpg.off) the feature. See "Downloads Folder" in chapter 3 (Macintosh) and "PS_Files Folder" in chapter 4 (PC) for instructions.

To print a start-up page manually, take the printer off line and press the Test key. After the page prints, press the Online key to put the printer back on line.

Toner Cartridge Control

If your printer does not produce the rich, black images that you expect, try redistributing the toner in the cartridge and adjusting the print density before replacing the toner cartridge.

Redistributing Toner

If you have not used the toner cartridge in several days, toner may have settled. Remove the cartridge from the printer, and shake the cartridge gently to redistribute toner. Replace the cartridge in the printer. See "Toner Cartridge" in chapter 2.

Adjusting Print Density

You can increase or decrease the amount of toner laid down by the printer using the print density dial.

Note: The amount of toner used increases as printer dial settings move from low (L) to high (H). Printing with too high a setting shortens the life of the toner cartridge and may degrade print quality.

To adjust the print density dial

1. Open the multipurpose feeder by grasping the handle in the top center of the cover and pulling down (fig. 6.16).

   Caution: The multipurpose feeder does not open to a 90° angle. To prevent damage to the feeder, do not exert strong pressure or place heavy objects on it.

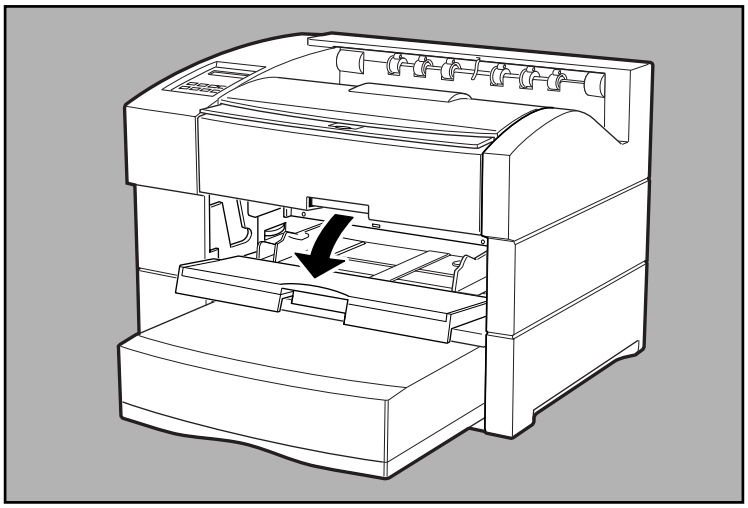

Fig. 6.16 Open the Multipurpose Feeder

2. Turn the print density dial toward the H (Higher density) to darken the print or toward the L (Lower density) to lighten the print (fig. 6.17).

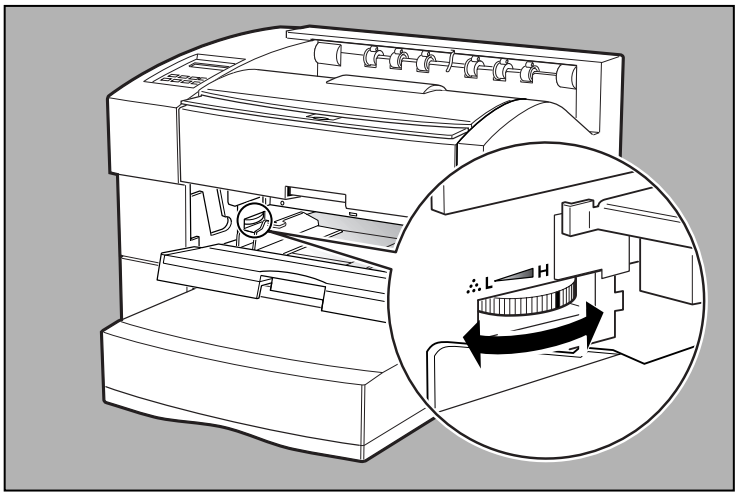

Fig. 6.17 Adjust the Print Density Dial

3. Close the Multipurpose Feeder.

Note: Check the print density dial when you replace a toner cartridge. The setting required for the previous cartridge may be too high or too low for the new cartridge.

Toner Page

The Toner Page feature automatically prints a toner reorder form when the cartridge needs to be replaced. To order a new cartridge, fill out the form and return it to XANTÉ or to your XANTÉ vendor. If the feature is enabled and toner is low, the reorder form prints every 250 pages.

Set Toner Page from the MISC: TONER PAGE configuration menu. Yes, the factory default, enables this feature; No disables it.

Tray Selection Options

You can select a specific tray as the default media source or you can use tray chaining to automatically switch to another source for media when the current source is empty.

Selecting a Specific Tray

Use the Tray Select control key or your application's options to select a specific tray as the media source. The Tray Select key allows you to scroll through tray options in the window. Options are man feed (multipurpose feeder), cassette (standard cassette), upper optional, and lower optional. The last two selections appear only if these optional trays are installed.

In most Macintosh applications, use the Print dialog box Paper Source options to specify the media tray.

- The All pages from options allow you to choose a specific tray or use the printer's default to print all pages of a job.
- The First page from and Remaining from options allow you to specify one tray for the first page and a different tray for the rest of the print job.

In most PC applications, you can specify the media tray on the Paper Source tab of the Page Setup dialog box or on the Paper tab of the Print dialog box's Properties section.

- The AutoSelect Tray option directs the printer to use the media source that contains the paper size you selected in the file.
- Other options (Cassette, Upper Optional Tray, Lower Optional Tray, and Manual feed) direct the printer to use a specific tray. Optional tray selections are valid only if these trays are installed.

Enabling Tray Chaining

Use the MISC:TRAY SWITCH configuration menu or your Print dialog box options to enable tray chaining. Your printer allows you to chain to all paper cassettes, the optional 2,000 sheet feeder, and the multipurpose feeder if the following conditions are met.

- All selected media sources must contain the same size media. If the printer detects a different size media when it switches to a new tray, a PAPER OUT message appears.
- All trays must be properly inserted. When tray chaining is enabled, an incorrectly positioned tray prevents the printer from printing.

Use the MISC:TRAY SWITCH configuration menu to change the printer's default tray chaining option. Normal enables tray chaining to all installed paper cassettes. Manual Feed enables tray chaining to all installed paper cassettes and the multipurpose feeder. Off, the factory default, disables chaining.

The Tray Switch menu in the Print dialog box of Windows 95 and 98 as well as some Macintosh applications allow you to override printer default setting for jobs sent to the printer from your system. True enables tray chaining to all cassettes and the multipurpose feeder. False disables chaining.

Most Macintosh applications allow you to configure the printer's tray chaining feature using the If the Cassette is out of paper option in the Print dialog box Error Handling menu.

- The Use printer's default option uses the printer's front panel Tray Switch menu setting.
- The Switch to another cassette with the same paper size option implements tray chaining to all cassettes and the multipurpose feeder.

Working with PostScript and Emulations

Your printer features Adobe PostScript (the factory default), not an emulation. However, your printer has both HP PCL 5 and HP–GL 7475A emulations for the PC environment, whether you use the serial or the parallel interface.

Selecting PostScript or Emulation Modes

The printer's front panel allows you to select modes (Adobe PostScript or an emulation) through the Interface menu, SETUP:I/F. For details on selecting the interface, see "Selecting Menu Options" earlier in this chapter. Then see "Interface Control" in this chapter for listings of modes available for each interface port.

The main ways to configure a printer interface are for

- PostScript only files
- HP–GL only files
- HP PCL 5 only files
- A mix—PostScript and HP PCL 5 files

Each port can be individually configured. For example, you can configure the parallel port for PostScript and the serial port for HP-GL.

If you plan to send a combination of PostScript and HP PCL 5 files, you may want to set at least one of the printer interfaces to an automatic switching mode. This Automatic Interface Switching (AIS) technology works by examining the incoming data stream to determine if it is a PostScript or HP PCL 5 file and then by activating the appropriate emulation.

Automatic switching is designed to work with mainstream application packages. Occasionally, some applications do not use the customary codes at the beginning of a file, and the file may not work as expected. If this happens, use the front panel to set the printer to the appropriate emulation.

Note: If you are printing in either PCL 5 or HP-GL 7475A mode, see appendix A, "HP PCL and HP–GL Supported Commands," for details on PCL syntax and commands.

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Chapter 7 - Media Options

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Notes

Introduction

This chapter describes selecting and using various media types and sizes and creating double-sided output.

Media Specifications

To ensure that your job prints correctly, always use appropriate media. Store and handle it carefully to prevent damage to the media and printer. This section provides guidelines for selecting media and describes media types and sizes for use in your printer.

Guidelines for Selecting and Storing Media

To prevent paper jams and print quality problems when selecting media for your printer, use media that

- can withstand a temperature of 302° F (150° C). Preprinted inks, such as letterheads, that cannot withstand these temperatures can cause damage the printer's fusing rollers permanently.
- meets weight and media type requirements for the media source. See "Loading Media" later in this chapter.

Do not use media that

- is unusually thick, thin, wrinkled, torn, curled, creased, wet, damp, or otherwise damaged.
- is special coated, synthetically reinforced, colored with surface treatment, or heavily textured.
- has metal clasps, strings, staples, cutouts, perforations, or windows.
- has exposed adhesives or is a partial sheet of labels or a sheet on which the glue has soaked through the labels.

Caution: Using media that does not meet these guidelines may void your printer warranty. XANTÉ is not responsible for damages caused by media. Repair will be at the user's expense.

To prevent damage to media, store media

- in small, flat stacks (not set on its side or end).
- in the original wrapper in a location with a temperature range from 50 to 86˚ F (10 to 30˚ C) and a stable relative humidity from 30 to 65%.
- in a dark area; do not expose it to direct sunlight.

Media Sizes

Your printer allows you to use media from 3.94" x 5.83" (100 mm x 148 mm) to 13.00" x 18.50" (330 mm x 470 mm). With the Accel-a-Writer 3G, you can use media up to 13.00" x 35.50" (330 mm x 902 mm). See "Media Sources" later in this chapter about which media source to use with specific media sizes. You can use A3, A4, B4, letter, legal, and ledger size paper with the optional duplexer.

Imageable Area

Physical page size is different from the imageable area. The portion of a physical page on which the printer can lay down toner is the imageable area. The following chart lists imageable areas produced by the XANTÉ Series 3 printers for many standard media sizes.

	Media Sizes	Imageable Areas
Letter	8.50" x 11.00" (215 mm x 279 mm)	8.34" x 10.82" (212 mm x 275 mm)
Legal	8.50" x 14.00" (215 mm x 355 mm)	8.30" x 13.89" (211 mm x 353 mm)
A4	8.26" x 11.69" (210 mm x 297 mm)	8.14" x 11.49" (207 mm x 292 mm)
A3	11.69" x 16.53" (297 mm x 420 mm)	11.49" x 16.45" (292 mm x 418 mm)
B5	7.16" x 10.11" (182 mm x 257 mm)	7.04" x 9.96" (179 mm x 253 mm)
B4	10.11" x 14.33" (257 mm x 364 mm)	9.96" x 14.13" (253 mm x 359 mm)
Ledger (11 x 17)	11.00" x 17.00" (279 mm x 431 mm)	10.82" x 16.85" (275 mm x 428 mm)
Executive	7.25" x 10.50" (185 mm x 266 mm)	7.16" x 10.35" (182 mm x 263 mm)
Universal (13 x 18.5)	13.00" x 18.50" (330 mm x 469 mm)	12.69" x 18.42" (322 mm x 468 mm)
13 x 35.5	13.00" x 35.50" (330 mm x 901 mm)	12.69" x 35.23" (322 mm x 895 mm)
Com 10	4.13" x 9.50" (105 mm x 241 mm)	3.93" x 9.33" (100 mm x 237 mm)
Monarch	3.88" x 7.50" (99 mm x 190 mm)	3.74" x 7.36" (95 mm x 187 mm)
DL	4.33" x 8.66" (110 mm x 220 mm)	4.13" x 8.50" (105 mm x 216 mm)
C5	6.37" x 9.01" (162 mm x 229 mm)	6.22" x 8.89" (158 mm x 226 mm)

Set page margins in your applications to fit within the imageable areas. If you try to print outside the imageable area, many applications issue a warning message, giving you an opportunity to make changes; some applications, however, clip the image and print the page.

Printing on Custom Sized Media

Always use the appropriate feed source for the size and type media you are using, following the procedure in chapter 2 or in "Media Sources" later in this chapter.

Set the custom page size through your application. Make sure that paper size selections in the page or document setup section agree with those in the Print dialog box to ensure that the page prints correctly.

Caution: Do not use the optional duplexer when printing on custom sized media.

Additional RAM is required to print oversized media, particularly at high resolutions. See "Printer Memory Requirements" in chapter 9.

If a virtual memory error occurs, there is not enough printer memory to process the job. In this case, try adding memory to your printer, printing at a lower resolution, or using only printer resident fonts.

Media Types

Your printer supports paper, envelopes, film media, labels, and transparencies with weights from 16 - 36 lb bond (60 - 135 g/m^2). The duplexer supports 16 - 28 lb bond (60 - 105 g/m^2) weight paper. See "Media Sources" later in this chapter about which media source to use with specific media types and weights. Chapter 8, "Printing with Various Media Types," covers specifics for printing on film, envelopes, transparencies, and labels.

Media used in your printer should meet the guidelines for selecting and storing media covered earlier in this chapter. To save on media costs, test a sample of new media before buying in quantity. Run a test print on plain paper to check layout and alignment before using more expensive stock.

Caution: Do not use the duplexer when printing on transparencies, Myriad film, envelopes, postcards, or labels.

Media Handling

This section describes available options for feeding media to the printer. It summarizes the media path and covers using the paper cassettes, the optional paper feeders, the multipurpose feeder, and the duplexer.

Media Path

Figure 7.1 illustrates the media path in your printer.

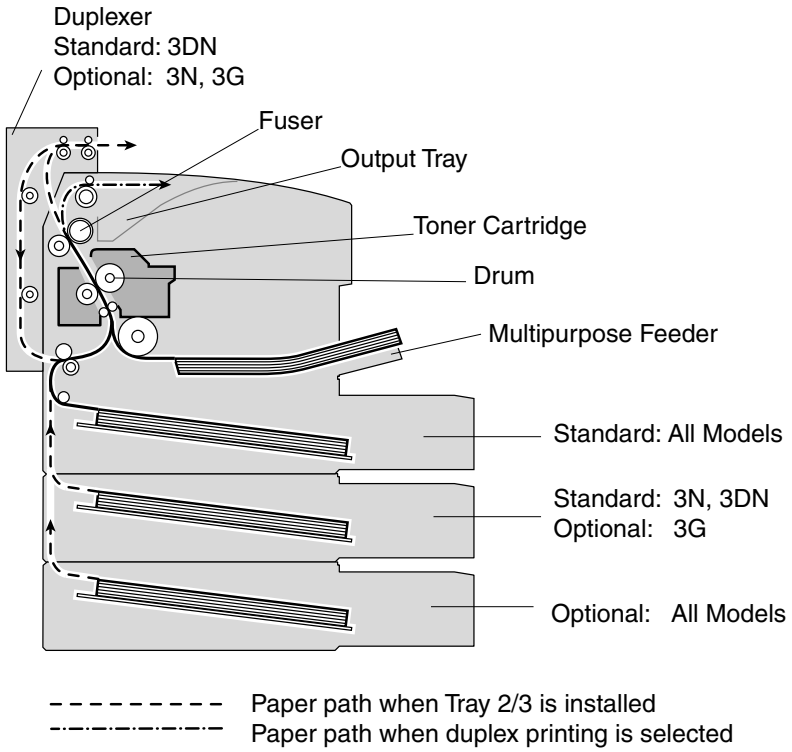

Fig. 7.1 Printer Media Path

1. Media is pulled from the multipurpose feeder or a paper cassette.

2. The image is transferred to the media from the drum.

3. Toner is fixed on the media by the fuser.

4. If the image is two-sided and the duplexer is installed, paper passes through the duplexer, reverses, and goes through steps 2 and 3 again.

5. The paper is delivered into the output tray.

Media Sources

The Accel-a-Writer 3N and 3G printers are equipped with a built-in paper cassette feeder and a multipurpose tray, which provide an input capacity of approximately 650 sheets of standard (20 lb bond/60 lb text weight; [65 g/m^2]) paper. The 3DN has an additional feeder and 500 sheet cassette. You can add optional paper feeders to increase input capacity.

Paper feeders support both the universal cassette supplied with your printer and the optional envelope cassette. All media sources can be used to increase the capacity for a single media size with the tray chaining option or as sources for different sizes or types of media.

Optional Paper Feeders

You can add up to two optional paper cassette feeders to your printer to increase input capacity for standard paper to approximately 1,650 sheets. You can add the optional 2,000 sheet paper feeder instead of one of the optional paper cassette feeders to increase printer capacity to approximately 3,150 sheets of standard paper.

Note: The optional 2,000 sheet paper feeder is available only for 20 ppm printers. It cannot be used on a 3G with optional 2400 dpi or NEIT installed.

Chapter 10 covers installing feeders and loading the 2,000 sheet paper feeder. Chapter 2 covers loading paper cassettes.

Paper Cassettes

The universal cassette included with the printer handles paper sizes from 5.50" x 8.50" (140 mm x 216 mm) up to 13.00" x 18.50" (330 mm x 470 mm) and paper weights from 16 - 28 lb bond (60 - 105 g/m^2). For a 20 lb bond/60 lb text weight (65 g/m^2) paper, you can load approximately 500 sheets of paper or to a stack height of 2.13" (54 mm).

The optional envelope cassette handles Com-10, Monarch, DL, and C5 sized envelopes with the same paper weight range as the universal cassette. You can load approximately 75 envelopes in the envelope cassette.

Use the arrow tab on the media guides to select the paper size in the cassette. Select the paper cassette or tray chaining from your application Print dialog box or the printer's front panel.

Multipurpose Feeder

The Accel-a-Writer 3N and 3DN multipurpose feeders handle media sizes from 3.94" x 5.83" (100 mm x 148 mm) to 13.00" x 18.50" (330 mm x 470 mm) and media weights from 16 - 36 lb bond (60 - 135 g/m^2). The 3G's multipurpose feeder supports media up to 13.00" x 35.50" (330 mm x 902 mm). Use the multipurpose feeder extension to support larger media. Select the media size from the front panel MISC:MAN FEED menu or use the custom size option in your application.

You can load paper, transparencies, labels, Myriad film, and envelopes to a stack height of .70" (18 mm) in the multipurpose feeder. For typical media weights, this equals approximately 150 sheets of paper, 10 envelopes, or 30 transparencies, labels, or sheets of Myriad film.

Loading Media

Select the cassette or multipurpose feeder as the media source using the printer's front panel Tray Select key or your application's Print dialog box. Use tray chaining to pull paper from all cassettes and the multipurpose feeder that are loaded with and configured for the same paper size.

Load envelopes short edge first in the envelope cassette and the multipurpose feeder. Load envelopes flap closed in the envelope cassette or flap open in the multipurpose feeder to provide a flatter address area print surface.

Load media in the cassettes and multipurpose feeder print side up, leading edge to the back of the printer. Most media packages indicate the print side. Use the following chart to determine alignment for standard paper sizes in the universal cassette and multipurpose feeder.

Media Size	**Universal Cassette**	**Multipurpose Feeder**
A3	Short	Short
A4	Long	Long
A5	Long	Long
B4	Short	Short
B5	Long	Long
Legal	Short	Short
Ledger	Short	Short
Letter	Long	Long
Executive	Long	Long
Statement	Long	Long
Envelopes	N/A	Short
Oversize**	Short	Short

* Short = Short Edge First, Long = Long Edge First

** Oversize paper = 12.00" x 17.25" (306 mm x 439 mm) to 13.00" x 18.50" (330 mm x 470 mm)

Tray Chaining

Tray chaining directs the printer to automatically switch to another source for media when the current source is empty. You can chain to all paper cassettes and the multipurpose feeder.

Use the following guidelines and the procedure in "Tray Selection Options" in chapter 6 when tray chaining.

- All selected media sources must contain the same size media. If the printer detects a different size media when it switches to a new tray, a `PAPER OUT` message appears.
- All trays must be properly inserted. When tray chaining is enabled, an incorrectly positioned tray will prevent the printer from printing.

Printing Double-Sided Copy

You can print double-sided copy manually by feeding paper through the printer twice or automatically with the optional duplexer.

Manual Double-Sided Copy

1. Print the first side of the paper.
2. Remove the paper from the output tray, straighten any curling edges, and allow it to cool thoroughly.
3. Load the paper using the following guidelines:

   Note: For best results when printing on the second side, feed sheets individually or slip-feed (feed a blank sheet between each printed sheet) to prevent toner from sticking to adjacent pages.

   a. Determine whether to load the media short or long edge first. See "Loading Media" earlier in this chapter.

   b. Print a test page or check your software documentation to determine the orientation of the media's top edge.

   c. Load media into the multipurpose feeder print side up.

4. Print the second side.

Optional Duplexer

The optional duplexer allows you to print double-sided copy automatically, rather than by feeding pages manually.

Guidelines for using the Duplexer

Follow these guidelines when using the duplexer to prevent paper jams and ensure the highest quality output.

- Use the duplexer for A3, A4, B4, letter, legal, and ledger size of 16 - 28 lb bond (60 - 105 g/m^2) weight paper.
- Do not use the duplexer for media other than paper or for A5, B5, executive, statement or oversized (larger than 11.00" x 17.00" [279 mm x 432 mm]) paper.
- Avoid using recycled paper in the duplexer. Recycled paper may absorb moisture which can cause the paper to wrinkle or fold. This can result in paper jams.
- RAM requirements for duplexing depend on the paper size and printing resolution. See “Printer Memory Requirements” in chapter 9.
- The optional duplexer is available only for 20 ppm printers. It cannot be used on printers that have the 2400 dpi or NEIT upgrades installed.

“Duplexer” in chapter 10 covers installing the duplexer, and “Duplexer” in chapter 6 covers its configuration.

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Chapter 8 - Printing with Various Media Types

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Printing Envelopes 8-5
Printing Labels 8-5
Printing Transparencies 8-6

Notes

Introduction

This chapter covers printing on computer-to-film, envelopes, labels, and transparencies. It also lists Myriad film sizes. For additional information and troubleshooting procedures, see chapters 2 and 11.

Printing Computer-to-Film

You can print directly to XANTÉ's Myriad film (3G) to create an image that can be used to burn metal plates and silk-screen emulsions, bypassing the camera and darkroom steps.

Myriad film is a specially designed, semitransparent film with low UV blockage. The transmissive density of toner on Myriad film is increased to 3.3 when processed through FilmStar 2.

Always use the multipurpose feeder following the procedure in chapter 2, the media specifications in chapter 7, and these guidelines when printing film.

- Use only XANTÉ's Myriad film, designed specifically for use with the Accel-a-Writer 3G printer and FilmStar 2. Using other film material may void your printer warranty.
- Avoid handling film excessively to prevent fingerprints and scratches.
- Keep the paper path clean (see chapter 9); dust or dirt can scratch film and reduce print quality.
- Load fewer sheets of film if jams occur.
- Remove each sheet as it prints to prevent static buildup.
- Do not fan film. This causes static buildup which can cause jams.
- Once an image is printed on Myriad Film, the toner side is the emulsion side. For FilmStar 2 processing, load film emulsion side up.

- Use the Cool fuser temperature setting for regular weight film and Warm for heavy film. Myriad film is regular weight film.

The following chart lists Myriad film sizes. To order Myriad film, call your preferred XANTÉ dealer or your XANTÉ Consumables Sales Representative at 800-540-7091 (US and Canada).

Myriad Film Part Number	**Myriad Film Size**
200-100001	8.50" x 11.00" (215 mm x 279 mm)
200-100002	8.26" x 11.69" (210 mm x 297 mm)
200-100003	11.00" x 17.00" (279 mm x 431 mm)
200-100004	11.69" x 16.54" (297 mm x 420 mm)
200-100005	10.00" x 15.00" (254 mm x 381 mm)
200-100006	11.75" x 18.00" (298 mm x 457 mm)
200-100007	12.00" x 18.00" (304 mm x 457 mm)
200-100008	12.00" x 25.00" (304 mm x 635 mm)
200-100062	13.00" x 18.50" (330 mm x 470 mm)
200-100063	13.00" x 25.00" (330 mm x 635 mm)
200-100072	13.00" x 35.50" (330 mm x 902 mm)

Printing Envelopes

Use the multipurpose feeder or the envelope cassette, following the procedures in chapter 2, the media specifications in chapter 7, and these guidelines when printing envelopes.

- Do not use gummed envelopes or envelopes with adhesive tape.
- Before loading the envelope, place it on a flat surface and press it smooth to make the corners and folds as flat as possible.
- Feed envelopes print side up, short edge first.
- Load envelopes flap open in the multipurpose feeder to provide the best print quality in the address area. Load envelopes flap closed in the envelope cassette.
- Format envelopes in your application and run a plain paper test print to check flap alignment before running on more expensive envelope stock.
- Use the Cool fuser temperature setting when printing envelopes.

Printing Labels

Always use the multipurpose feeder, following the procedure in chapter 2, the media specifications in chapter 7, and these guidelines when printing labels.

- Do not overload the label stock. Label sheets compressed by the weight of the stack will expand as they feed into the printer which can cause a jam.
- Make sure labels are not curled on the corners or coming loose from the backing sheet.
- Use only labels that are rated as “laser safe.” Do not use label sheets with exposed adhesives (such as partially used sheets or sheets on which the adhesive has seeped through to the surface).
- Use the Cool fuser temperature setting when printing labels.

Printing Transparencies

Always use the multipurpose feeder, following the procedure in chapter 2, the media specifications in chapter 7, and these guidelines when printing transparencies.

- Avoid handling transparencies excessively to prevent fingerprints and scratches.
- Keep the paper path clean (see chapter 9); dust or dirt can scratch transparencies and reduce print quality.
- Load fewer transparencies if jams occur. The weight of a stack of transparencies could cause the sheets to stick together.
- Remove each transparency as it is printed to help prevent static buildup.
- Do not fan transparencies. This causes static buildup which can cause jams.
- Use the Cool fuser temperature setting when printing transparencies.

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Chapter 9 - Maintenance and Specifications

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Notes

Introduction

Your Accel-a-Writer 3 series printer requires minimal maintenance. This chapter describes how to handle, store, move, and clean your printer and contains technical specifications and warranty information.

Maintenance

Proper care will extend the printer's life. Use the guidelines in this section to maintain your printer in optimum working condition and to ensure the highest quality output.

Handling the Printer

Use the following guidelines when handling or using your printer.

Warning! The printer weighs approximately 58.5 lb (26.5 kg) without the toner, cassettes, and media installed.

- Always have two people lift the printer.
- Only lift the printer using the recessed grip areas on the right and left sides.

- At the end of the day, turn off the printer following the procedure in chapter 2.
- *Never* move the printer with the toner cartridge installed.
- Do not place anything on top of the printer.
- Always lift the printer by the recessed grip areas on the bottom—never by the cartridge slot or multipurpose feeder.
- Only use media that meets printer requirements. See "Media Specifications" in chapter 7 for details.
- Make sure the printer's location meets the requirements in "Printer Location" in chapter 2.
- Never oil the printer.

- Allow the printer side vent at least 8.0" (200 mm) clearance to prevent overheating. Never insert anything into the vent.
- Make sure the output tray does not overfill. Overfilling can block media as it comes out and cause a printer jam.
- Check the power cord and plug monthly and replace it immediately if you find any damage.

Storing the Printer

Use the following procedure when storing the printer for an extended period.

1. Turn off the printer. Unplug the power cord from the power source.
2. Remove all media from the multipurpose feeder. Close the multipurpose feeder and, if necessary, the top cover. See chapter 2 for instructions.
3. Store the printer and media properly.
    a. Store the printer and media in an area with a temperature of 32˚ to 95˚ F (0˚ to 35˚ C) and a relative humidity of 15% to 80% with no condensation.
    b. Store the printer and media in the original containers or cover them to protect from dust.

Moving the Printer

Use the following procedure when moving the printer.

Warning! The printer weighs approximately 58.5 lbs (26.5 kg) without the toner, cassettes, and media installed.
- Always have two people lift the printer.
- Only lift the printer using the recessed grip areas on the right and left sides.

1. Turn off the printer; then unplug the power cord from the power source.

2. Remove all media from the multipurpose feeder and close it and, if necessary, the top cover. See chapter 2 for instructions.

3. Remove any installed optional feeder or duplexer (see chapter 10, “Options,” for details). *Never* move the printer with an optional feeder or the optional duplexer installed.

4. Remove the toner cartridge following the procedure in chapter 2. *Never* move the printer with the cartridge installed.

   a. Place the cartridge in its original bag to protect it from light. If you no longer have this bag, place the cartridge in a dark bag or wrap it in a dark cloth.

   b. Ensure the cartridge stays level during the move. Rock it gently to redistribute toner before reloading the cartridge in the printer. See “Toner Cartridge” in chapter 2.

5. Remove all interface cables and the power cord.

6. Move the printer to a location that meets the guidelines in “Printer Location” in chapter 2.

7. Set up the printer following the instructions in chapter 2.

Cleaning the Printer

To help keep your printer running smoothly and avoid unnecessary problems, perform the following cleaning steps monthly. Also, clean the printer inside after removing a paper jam or replacing the toner cartridge.

Fuser Assembly Cleaning

1. Turn off and unplug the printer.

Warning! Allow fuser assembly to cool before removing.

2. Open the fuser cover assembly (fig. 9.1).

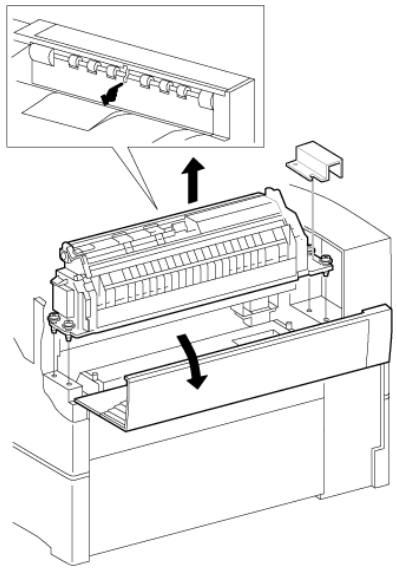

Fig. 9.1 Fuser Assembly

3. Loosen but do not remove the two thumb screws located on the right side of the printer.

4. Lift up on the right side of the fuser assembly, using the orange tab. Pull the right side of the fuser toward you, while sliding the entire unit to the right. Then lift the assembly out of the printer using the orange tabs.

5. After removing the fuser assembly, pull down on the two green tabs to open the unit.

6. Clean both rollers with denatured alcohol and a lint-free cloth. (Turn the fusing unit upside down to access the fusing roller.)

   Caution: To prevent printer damage, wipe area lightly; do not rub.

7. Vacuum the area using a soft brush attachment or blow compressed air into the printer.

Warning! Wear protective safety glasses when using compressed air.

Caution: Do not pull out any wires while performing this step.

8. Slide the left side of the fuser assembly under the metal bracket and lower into place.

9. Tighten the two screws.

10. Close the fuser cover assembly.

Transfer Roller Cleaning

1. Turn off and unplug the printer.

2. Remove the toner cartridge.

3. Remove the roller assembly by turning up the roller's plastic levers, one on each end (fig. 9.2); then, holding the levers, lift the transfer roller up and out at a 45° angle.

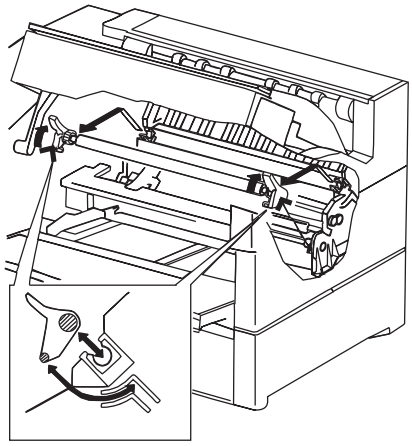

Fig. 9.2 Transfer Roller

4. Clean toner from the transfer roller with a soft bristle brush.

5. Vacuum the area using a soft brush attachment or blow it with compressed air.

Warning! Wear protective safety glasses when using compressed air.

Caution: Do not pull out wires while performing this step.

6. Lower the roller back into place with the gear end to the left. Make sure the lever protruding below the transfer roller fits inside the small opening on the door.

7. Push the roller into its holding clips. The roller assembly should spring back freely when pressed.

Toner and Manual Feed Area Cleaning

Clean the toner and manual feed area after removing a paper jam or replacing the toner cartridge.

1. Turn off the printer and disconnect it from the power source; then remove the paper jam or the toner cartridge.

   Caution: The fuser becomes very hot during operation. *Always* allow the fuser to cool completely before opening the fuser cover. If a paper jam occurs in the fuser area, turn off the printer and wait at least 30 minutes before attempting to clear the jam.

2. Remove any paper scraps and wipe off paper and toner dust with a dry clean cloth (fig. 9.3).

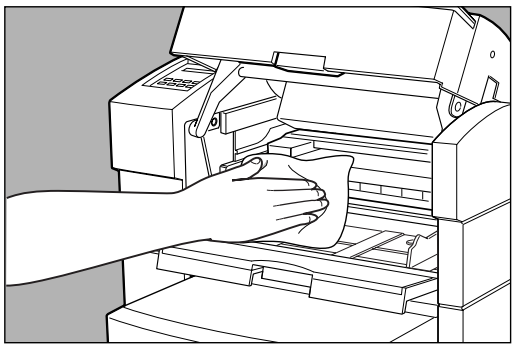

Fig. 9.3 Toner and Manual Feed Area Cleaning

3. Reassemble the printer and reconnect it to the power source.

Exterior Cleaning

1. Turn off your printer and disconnect it from the power source.

   Caution: Use only water or mild detergent for cleaning. To prevent discoloration, cracking, and deformation of the case, do not use alcohol, ammonia-based cleaners, or other volatile cleaners on or around the printer. Never spray or pour solutions directly on the printer. Always put the solution on the cloth and wipe the printer with the cloth.

2. Clean the printer's exterior using a clean, lint-free cloth dampened with water (fig. 9.4).

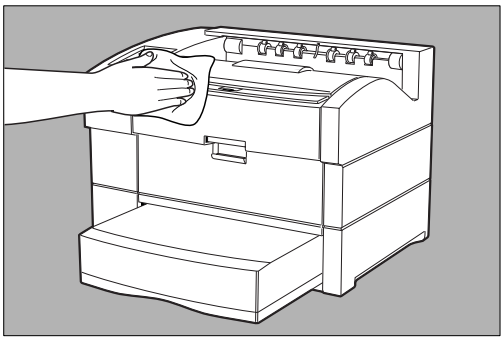

Fig. 9.4 Exterior Cleaning

3. Give the printer a few minutes to dry thoroughly. Then, reconnect the printer to the power source.

Technical Specifications

Type:	Laser printer; NEC V4310 166 MHz processor
Engine Speed:	20 ppm (600 and 1200 dpi) 10 ppm (with 2400 dpi or NEIT upgrade installed)
Power Supply:	
100/120 V Version-	100/120 VAC (90-132 V) 50/60 Hz (47-63 Hz); 6.5 Amps
220/240 V Version-	220/240 VAC (198-264 V) 50/60 Hz (47-63 Hz); 3.2 Amps
Power Consumption	
100/120 V Version-	100 VAC: Maximum 580 W (Running) Maximum 5 W (Pause Mode); 6.5 Amps
220/240 V Version-	220 VAC: Maximum 580 W (Running) Maximum 5 W (Pause Mode) 50/60 Hz (47-63 Hz); 3.2 Amps
Noise Level:	Printing: less than 49.5 dB without Duplexer Printing: less than 50.5 dB with Duplexer Standby: less than 35 dB
Dimensions:	(W) 22.82" (580 mm) (D) 23.68" (602 mm) with cassette (H) 16.24" (413 mm) with no options
Weight:	73.3 lbs (33.2 kg) with cassette
Environment:	50˚ to 90˚ Fahrenheit (10˚ to 32˚ Celsius) and 15% to 85% relative humidity without rapid changes; air pressure 760-1013 hpa (570-760 mmHg)

Language:	Adobe PostScript 3
Typefaces:	136 PostScript fonts Types 1, 3, 4, 5, and 6 PostScript download font support
Interfaces:	Standard: LocalTalk, parallel, RS232 serial, Ethernet (EtherTalk, Novell NetWare, NetBEUI, and TCP/IP)
Resolutions:	600 x 600 dpi standard and 1200 x 1200 dpi optional on 3N and 3DN 600 x 600 dpi and 1200 x 1200 dpi standard and 2400 x 2400 optional on 3G
Memory:	16 MB RAM standard on 3N 32 MB RAM standard on 3DN 64 MB RAM standard on 3G All upgradeable to 256 MB
Media size:	3.94" x 5.83" (100 mm x 148 mm) to 13.00" x 18.50" (330 mm x 470 mm) on 3N and 3DN 3.94" x 5.83" (100 mm x 148 mm) to 13.00" x 35.50" (330 mm x 902 mm) on 3G
XANTÉ Features:	Halftone Calibration Technology (Gamma) on 3G Enhanced Screening Technology on 3G Accurate Calibration Technology (X-ACT, patented) on 3G Densitometer support on 3G Negative Enhanced Imaging Technology (NEIT, patented) optional on 3G
Toner cartridge:	14,000 sheets (letter; 5% coverage)

Printer Memory Requirements

Memory requirements vary depending on the print resolution, media size, and duplexing mode.

The following chart lists the minimum available memory required to print typical configurations. Available memory is equal to the total RAM installed minus the amount of RAM Disk enabled (see "RAM Disk" in chapter 6). Complex files, large files, or those with heavy graphics may require more than the standard memory to print.

Minimum Memory Requirements

Media	Standard			Duplex*†	
	600 dpi	1200 dpi	2400 dpi*	600 dpi	1200 dpi
COM10 Env.	16 MB	32 MB	128 MB	N/A	N/A
C5 Env.	16 MB	32 MB	128 MB	N/A	N/A
DL Env.	16 MB	32 MB	128 MB	N/A	N/A
Monarch Env.	16 MB	32 MB	128 MB	N/A	N/A
B5	16 MB	32 MB	128 MB	N/A	N/A
Letter/A4	16 MB	32 MB	128 MB	32 MB	64 MB
B4	16 MB	32 MB	128 MB	32 MB	64 MB
Legal	16 MB	32 MB	128 MB	32 MB	64 MB
11" x 17"/A3	16 MB	64 MB	160 MB	64 MB	128 MB
13" x 18.5"	16 MB	64 MB	256 MB	N/A	N/A
13" x 35.5"	32 MB	128 MB	N/A	N/A	N/A

*The duplexer and 2400 dpi resolution are optional items.

†The duplexer is not functional with the 2400 dpi or NEIT upgrade installed.

Warranty and Service Options

XANTÉ recommends that only XANTÉ trained service engineers perform service on your printer. In addition to the one year limited warranty, XANTÉ offers a cross-ship exchange program and an on-site service plan for users in the United States and Canada.

XANTÉ provides a one year limited warranty against defects in material and workmanship on your printer. See “Limited Warranty” later in this chapter. To obtain warranty service, call customer support for an RMA (Return Material Authorization) number and return your printer to the XANTÉ Customer Repair Center, freight prepaid. For locations within the United States and Canada, XANTÉ repairs your printer within five business days.

With XANTÉ’s cross-ship exchange program, a replacement printer is cross-shipped to you if the XANTÉ technician determines that the problem cannot be resolved over the phone or with replacement parts. This plan is designed to minimize printer downtime and includes an option for an additional fee which allows you to bypass all repair attempts and receive a cross-shipped replacement printer immediately.

XANTÉ’s on-site service plan provides maintenance service performed at your location by a trained Wang Global technician. With this plan, if you are within 50 miles of the nearest authorized Wang Global Service Center, a trained service technician is dispatched to your site by the end of the next business day to begin servicing your printer.

For details on these plans or to request service under one of these plans, call XANTÉ Customer Support at 800-926-8839 (US and Canada) or your XANTÉ vendor.

Limited Warranty

XANTÉ CORPORATION warrants this product against defects in material and workmanship for a period of ONE (1) YEAR from the date of original purchase of the Accel-a-Writer 3 series printer.

In case of defect, XANTÉ CORPORATION will, at its option, repair, or replace this product at no charge to you provided you return the product, freight prepaid, to us during the warranty period. Please attach your name, address, telephone number, a description of the problem, and proof of date of original purchase. This warranty does not apply if the product has been damaged by accident, abuse, misuse, misapplication, or if the product has been modified without the written permission of XANTÉ CORPORATION.

XANTÉ CORPORATION IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPLACEMENT OF EQUIPMENT AND PROPERTY, AND ANY COSTS OF RECOVERING, REPROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH XANTÉ CORPORATION PRODUCTS.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO ONE (1) YEAR FROM THE DATE OF ORIGINAL PURCHASE OF THE ACCEL-A-WRITER 3 SERIES PRINTER.

THE WARRANTY SET FORTH ABOVE IS EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED.

Effect of Consumables on Warranty

We recommend you use only XANTÉ parts and consumables in your Accel-a-Writer 3 series printer. To order, call your preferred XANTÉ dealer or your XANTÉ Consumables Sales Representative at 800-540-7091 (US and Canada).

Your warranty and maintenance contracts are not affected by using non-XANTÉ products. However, any damages resulting from or repairs required due to use of non-XANTÉ products are not covered; if this happens, time and materials costs are charged.

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Chapter 10 - Options

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Notes

Introduction

This chapter describes available printer options and covers installation for those that are user installable.

Printer Options

You can order controller board upgrades and paper handling options to enhance your printer's performance. The following chart lists options and their types of installation.

Option	Type of Installation
10/100BaseT (all models)	Factory or User
2,000 Sheet Feeder (all 20 PPM models)	User only
1200 DPI Resolution (3N and 3DN)	Factory or User
2400 DPI Resolution (3G)	Factory or User
Duplexer (all 20 ppm models)*	User only
Internal IDE hard disk (all models)	Factory or User
NEIT (3G)	Factory or User
Paper Feeder (all models)	User only
RAM upgrades (all models)	Factory or User

* Standard on the 3DN

All factory installable options ordered with your printer are installed before the printer is shipped. The 2400 dpi resolution and NEIT upgrades require that the printer engine be reset to operate at 10 ppm (letter/A4 output). Although the first of these upgrades, which changes your printer engine speed, must be done at the factory, additional second upgrade may be installed on site.

To order options call XANTÉ at 800-926-8839 (US and Canada) from 7:00 a.m. until 7:00 p.m. Central Standard time Monday through Thursday or 7:00 a.m. to 6:00 p.m. on Friday, or call your XANTÉ vendor. If it is a factory upgrade, you will be given an RMA (Return Material Authorization) number and shipping instructions.

Paper Handling Options

You can add up to two optional paper cassette feeders to the Accel-a-Writer 3N and 3G and one to the 3DN to increase the input capacity for standard paper to approximately 1,650 sheets.

You can add the optional 2,000 sheet paper feeder instead of one of the paper cassette feeders to increase the printer's input capacity to approximately 3,150 sheets. The 2,000 sheet feeder supports letter and A4 size paper.

The duplexer (3DN; 3N and 3G optional) allows you to print on both sides of the paper. You can choose edge (side-to-side, standard book style) or tumble (flip chart style) duplexing (fig. 6.9).

Note: The 2,000 sheet paper feeder and the duplexer are available only for 20 ppm printers. They cannot be used on the 3G printer which has the 2400 dpi or NEIT upgrade installed.

Paper Cassette Feeder

This section describes installing and removing a paper cassette feeder. Cassette feeders support the same paper cassettes as the printer's built-in paper feeder. See "Paper Cassette" in chapter 2 and "Media Sources" in chapter 7.

Installing the Paper Cassette Feeder

1. Unpack the paper cassette feeder from the shipping carton. Remove all plastic, tape, and stabilizing material. Save the carton and packing material to use for storing the feeder.

   The package should contain the following items:

   - Feeder unit
   - Paper Cassette with cover
   - 2 IOT screws (fig. 10.3)

2. Place the feeder on a level, sturdy surface that meets the guidelines in "Printer Location" in chapter 2.

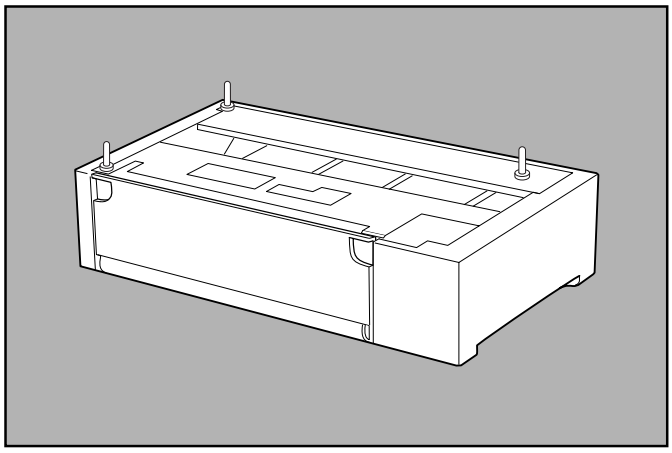

Fig. 10.1 Paper Cassette Feeder

3. Make sure the printer displays a `PLEASE WAIT` or `READY/IDLE` message. Then, turn off the printer, disconnect the power cord from the power supply (fig. 2.6), and disconnect all interface cables.

4. Remove all media from the multipurpose feeder and the output tray; then, close the multipurpose feeder.

5. Pull the cassette out until it stops; then, lift up slightly and remove it from the printer (figs. 2.16 and 2.17).

Warning! The printer weighs approximately 58.5 lbs (26.5 kg) *without* the toner, cassettes, and media installed. *Always* have two people lift the printer using the recessed grip areas on the right and left sides.

6. Lift the printer over the feeder and align the two stubs on the feeder with the holes on the bottom of the printer (fig. 10.2).

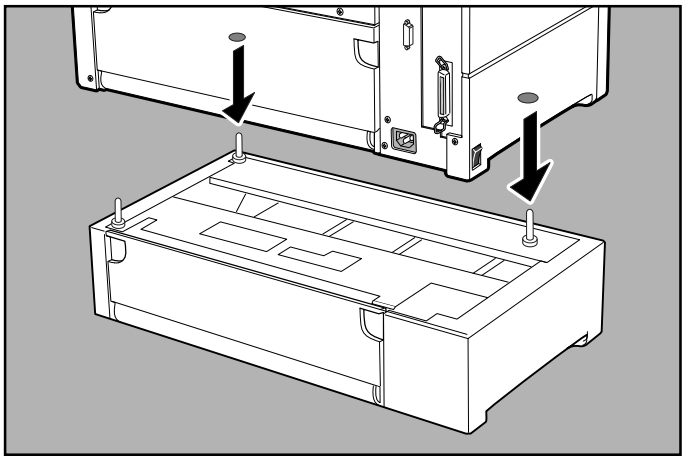

Fig. 10.2 Align the Printer over the Feeder

7. Lower the printer onto the feeder. The feeder's stubs should fit easily into the holes on the printer.

8. Insert the screws supplied with the feeder into the holes on the bottom of the printer (fig. 10.3). Tighten the screws to secure the feeder to the printer.

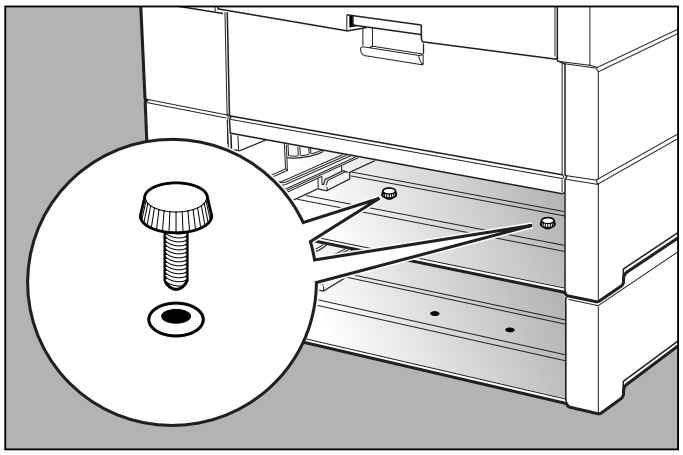

Fig. 10.3 Secure the Printer to the Feeder

9. Unpack the cassette, load it with paper, and install the first and second cassettes according to procedures in chapter 2 (fig. 10.4).

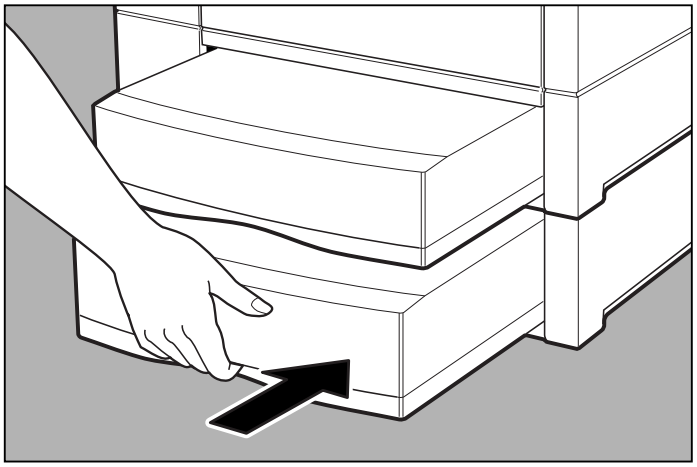

Fig. 10.4 Install the Second Paper Cassette

Removing the Paper Cassette Feeder

1. Make sure the printer displays a `PLEASE WAIT` or `READY/IDLE` message. Then, turn off the printer and disconnect the power cord from the power supply (fig. 2.6).

2. Remove media from the multipurpose feeder and the output tray; then, close the multipurpose feeder.

3. Remove all paper cassettes from the printer. Pull each cassette out until it stops. Lift up slightly and remove it from the printer (figs. 2.16 and 2.17).

4. Remove the screws that secure the feeder to the printer (fig. 10.3).

Warning! The printer weighs approximately 58.5 lbs (26.5 kg) *without* toner, cassettes, and media installed. Always have two people lift the printer using the recessed grip areas on the right and left sides.

---

5. Lift the printer off the feeder vertically until the printer is free of the feeder's stubs (fig. 10.2). Set the printer on a stable surface that will support its weight.

6. Repack the feeder in its original box and store it in a location that meets the guidelines in "Printer Location" in chapter 2.

7. Set the printer up again following the instructions in chapter 2.

2,000 Sheet Feeder

This section describes installing, loading, and removing the optional 2,000 sheet paper feeder. This feeder can be installed as one of the two additional paper feeders on your printer. The 2,000 sheet feeder supports letter and A4 size paper.

Note: The optional 2,000 sheet paper feeder is available only for 20 ppm printers. It cannot be used on printers that have the 2400 dpi or NEIT upgrade installed.

Installing the 2,000 Sheet Feeder

1. Unpack the 2,000 sheet feeder from the shipping carton. Remove all plastic, tape, and stabilizing materials. Save the carton and packing material to use for storing the feeder.

   The package should contain the following items:

   - Feeder unit
   - 2 Footers
   - 2 IOT screws (fig. 10.11)
   - 4 Allen screws (fig. 10.8)
   - Allen screwdriver

2. Lock the casters on the front of the feeder by pressing down the lever on each outside caster (fig. 10.5).

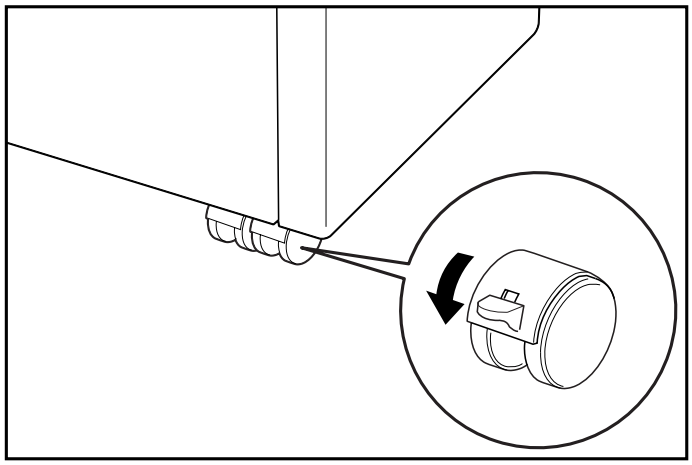

Fig. 10.5 Lock the Casters

3. Install both footers using the following procedure.

Warning: To ensure the stability of the 2,000 sheet feeder, do not use the feeder without first installing the footers.

a. Place the footer next to the feeder (fig. 10.6).

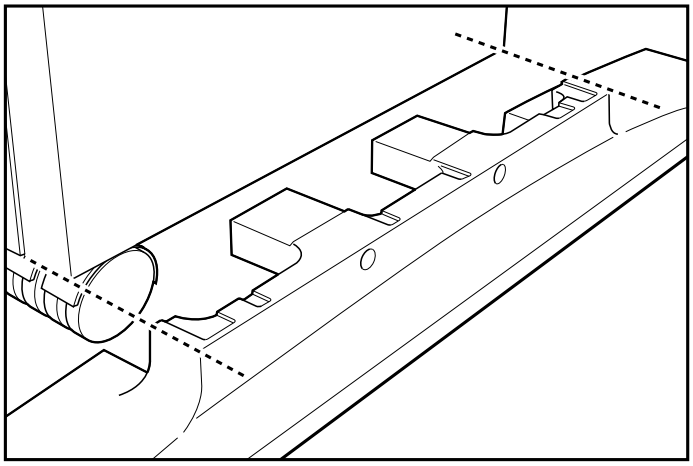

Fig. 10.6 Align the Footer with the Feeder

b. Lift the footer slightly and slide the tabs on the footer into the slots on the feeder (fig. 10.7).

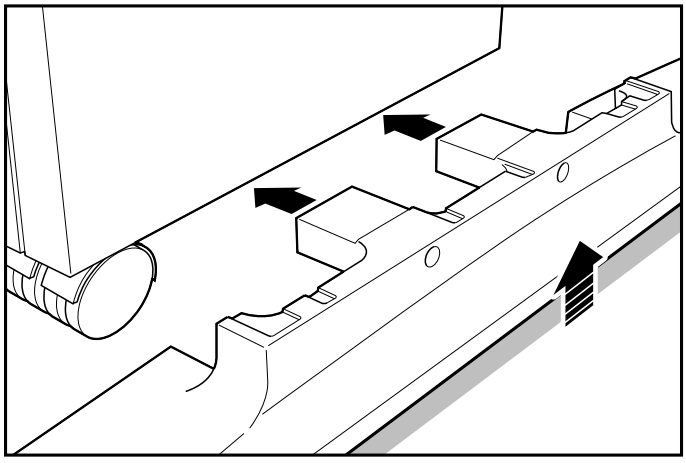

Fig. 10.7 Slide the Footer into the Feeder

c. Use the Allen screws and screwdriver to secure the footer to the feeder (fig. 10.8).

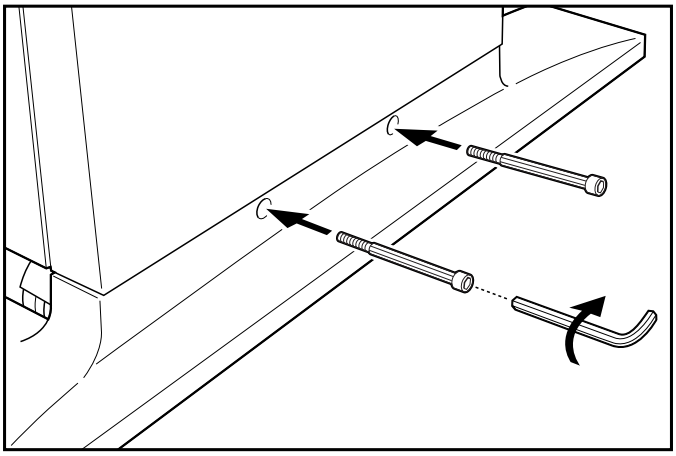

Fig. 10.8 Attach the Footer to the Feeder

4. Turn the locking key on the top of the feeder counterclockwise to release the lock (fig. 10.9).

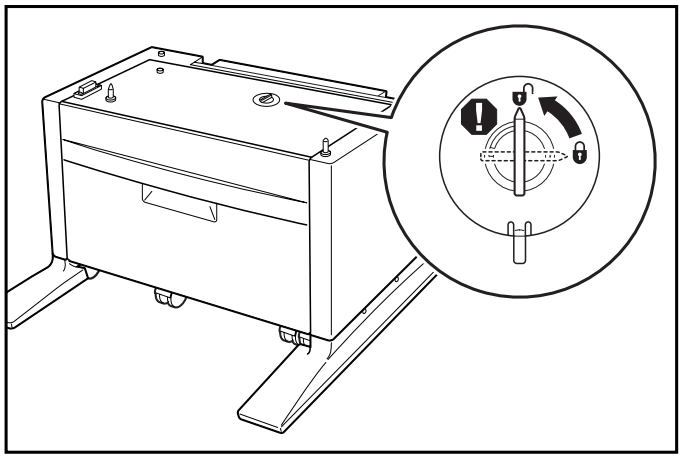

Fig. 10.9 Release the Locking Key

5. Make sure the printer displays a `PLEASE WAIT` or `READY/IDLE` message; then, turn off the printer and disconnect the power cord from the power supply (fig. 2.6).

6. Remove all media from the multipurpose feeder and the output tray. Then, close the multipurpose feeder.

7. Remove all paper cassettes from the printer. Pull each cassette out until it stops; then lift up slightly and remove it from the printer (figures 2.16 and 2.17).

Warning! The printer weighs approximately 58.5 lbs (26.5 kg) *without* toner, cassettes, and media installed. *Always* have two people lift the printer using the recessed grip areas on the right and left sides.

---

8. Attach the printer to the feeder using the following procedure.

Note: If a paper cassette feeder is to be used in addition to the 2,000 sheet feeder:

First, remove the cassette feeder from the printer, if necessary. See "Removing the Paper Cassette Feeder" earlier in this chapter.

Second, attach the paper cassette feeder to the 2,000 sheet feeder using the following procedure.

Third, attach the printer to the combined feeders using the following procedure.

a. Lift the printer over the 2,000 sheet feeder and align the two stubs on the feeder with the holes on the bottom of the printer (fig. 10.10).

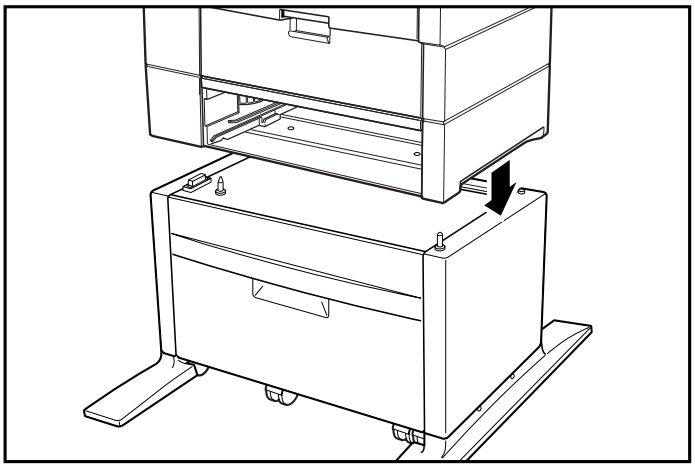

Fig. 10.10 Align the Printer over the Feeder

b. Lower the printer onto the feeder. The feeder's stubs should fit easily into the holes on the printer.

c. Insert the screws supplied with the feeder into the holes on the bottom of the printer (fig. 10.11). Tighten the screws to secure the feeder to the printer.

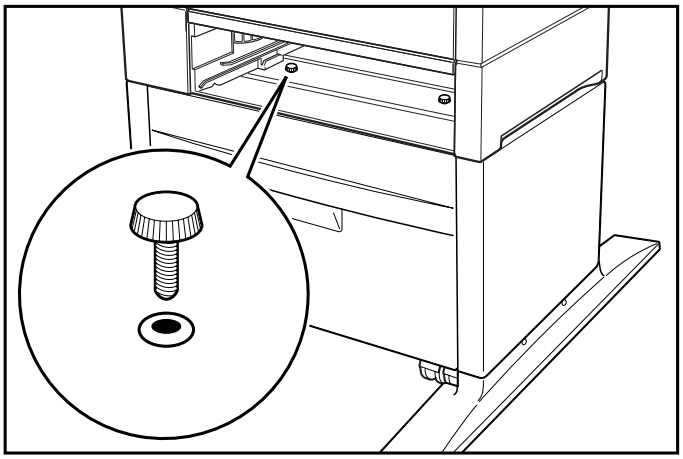

Fig. 10.11 Insert Screws to Secure the Printer to the Feeder

9. Connect the feeder's built-in power cord to the power receptacle on the back of the printer (fig. 10.12).

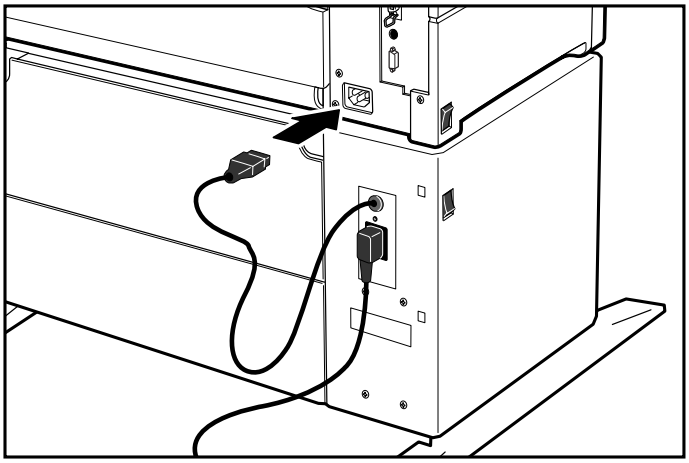

Fig. 10.12 Connect the Power between the Feeder and the Printer

10. Plug the AC power cord into the sheet feeder's power receptacle and into a properly grounded AC outlet.

11. Insert all paper cassettes into the printer (figs. 2.16 and 2.17).

12. Turn on the feeder (fig. 10.13) and the printer.

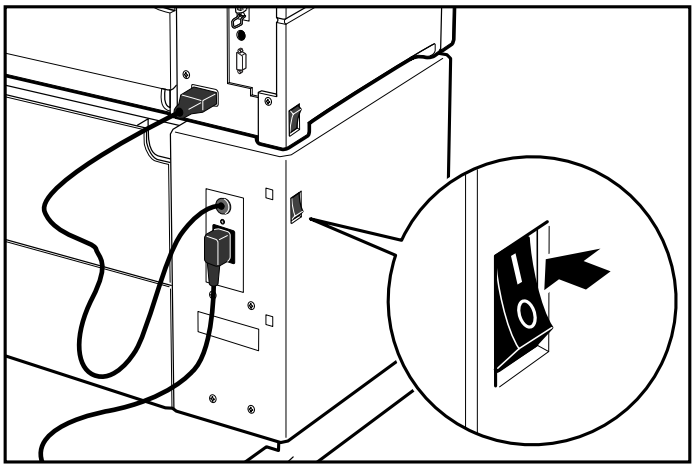

Fig. 10.13 Turn on the 2,000 Sheet Feeder

Loading the 2,000 Sheet Feeder

1. Open the paper drawer in the 2,000 sheet feeder and wait for the tray to lower (fig. 10.14).

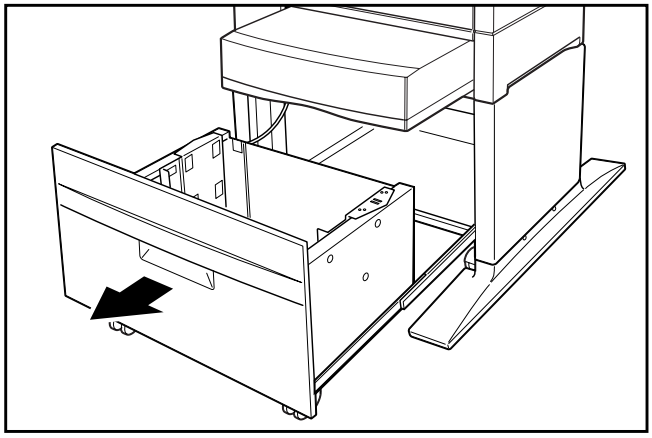

Fig. 10.14 Open the Paper Drawer

Warning! Do not reach into the paper drawer until the tray is completely lowered (approximately 20 seconds).

---

2. Adjust both paper guides to the size of the paper, if necessary, using the following procedure (fig. 10.15).

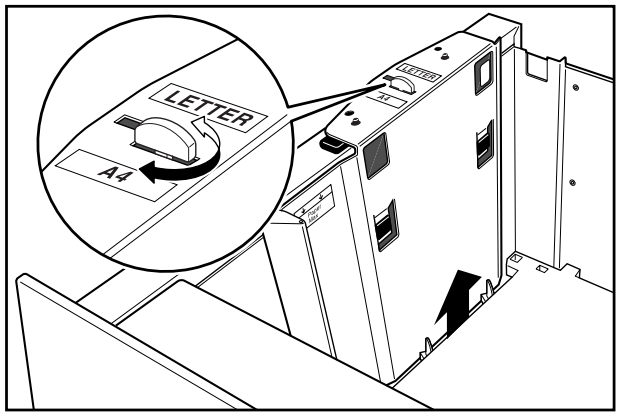

Fig. 10.15 Unlock the Paper Guides

a. Turn the knob on top of the paper guide counterclockwise to align it with the slot in the paper guide (fig. 10.15).

b. Lift the paper guide to release it from the knob and the stubs on the side of the drawer (fig. 10.15).

c. Align the bottom of the paper guide with the mark in the bottom of the drawer for the correct paper size. Reinsert the paper guide with the knob on the drawer top in the paper guide slot for the correct paper size.

d. Turn the knob on the top of the paper guide clockwise to lock the paper guide into position (fig. 10.16).

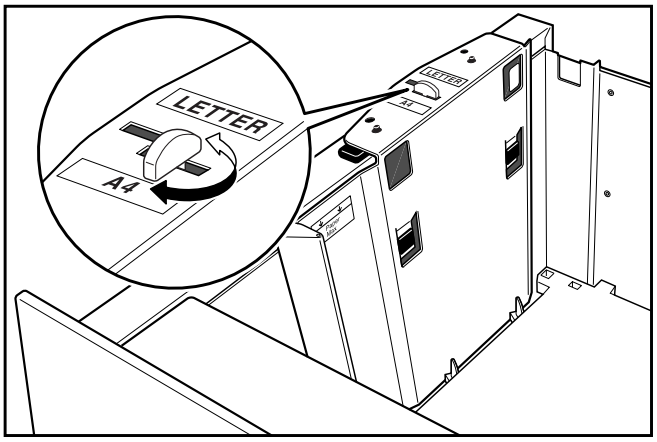

Fig. 10.16 Lock the Paper Guides

3. Align the edges of the paper stack and load it into the paper drawer print side up, leading edge to the back of the feeder.

Caution: To prevent jams, make sure the paper stack does not exceed the Paper Max mark on the paper guides (fig. 10.17).

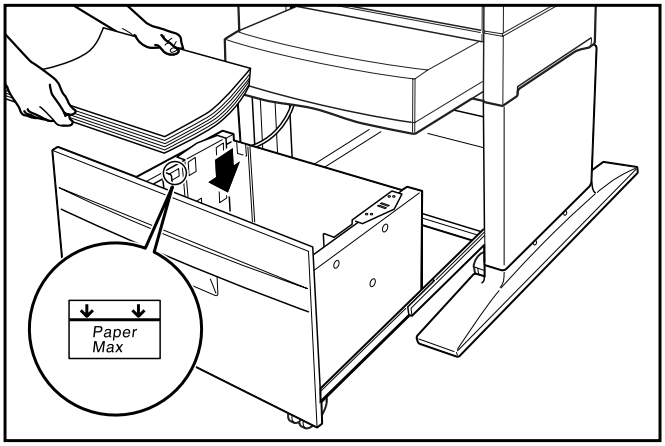

Fig. 10.17 Load the Paper Drawer

4. Close the paper drawer.

Removing the 2,000 Sheet Feeder

1. Make sure the printer displays a `PLEASE WAIT` or `READY/IDLE` message. Then, turn off the printer and disconnect the power cord from the power supply (fig. 2.6).

2. Remove all media from the multipurpose feeder and output tray. Then, close the multipurpose feeder.

3. Remove all paper from the 2,000 sheet feeder drawer. See the previous section, "Loading the 2,000 Sheet Feeder."

4. Remove all paper cassettes from the printer. Pull each cassette out until it stops; then lift up slightly and remove it from the printer (figs. 2.16 and 2.17).

5. Turn off the 2,000 sheet feeder and the printer. Disconnect the power cord from the wall and the feeder.

6. Disconnect the 2,000 sheet feeder's built-in power cord from the printer's power receptacle (fig. 10.12).

Warning! The printer weighs approximately 58.5 lbs (26.5 kg) *without* toner, cassettes, and media installed. *Always* have two people lift the printer using the recessed grip areas on the right and left sides.

7. Remove the printer from the 2,000 sheet feeder using the following procedure.

Note: If a paper cassette feeder is used in addition to the 2,000 sheet feeder:

First, remove the printer from the cassette feeder. See "Removing the Paper Cassette Feeder" earlier in this chapter.

Second, remove the cassette feeder from the 2,000 sheet feeder using the following procedure.

a. Remove the screws securing the printer to the feeder (fig. 10.11).

b. Lift the printer off of the feeder vertically until the printer is free of the feeder's stubs (fig. 10.10). Set the printer on a stable surface that will support its weight.

8. Remove the Allen screws and detach the footers (fig. 10.8).

9. Unlock the casters on the front of the 2,000 sheet feeder (fig. 10.18).

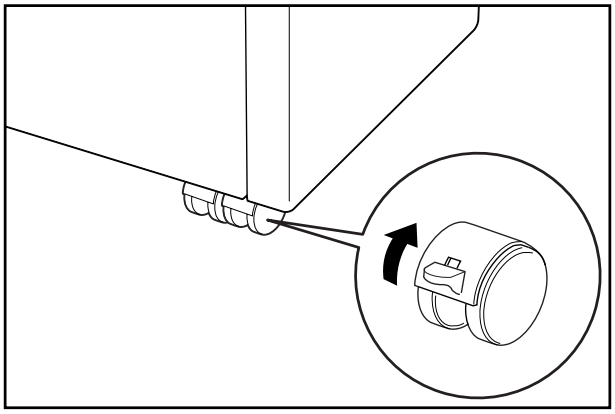

Fig. 10.18 Unlock the Casters

10. Repack the 2,000 sheet feeder in the original box and store it in a location that meets the guidelines in “Printer Location” in chapter 2.

11. Set the printer up again following the instructions in chapter 2.

Duplexer

This section describes installing and removing the optional duplexer. The duplexer is used to create double-sided copy automatically and to separate print jobs with an offset. See “Duplexer” and “Print Job Offset Feature” in chapter 6 and “Optional Duplexer” in chapter 7.

Note: The optional duplexer is available only for 20 ppm printers. It cannot be used on printers with the 2400 dpi or NEIT upgrade installed.

Installing the Duplexer

Warning: The fuser becomes very hot during operation. To avoid burns, turn the printer off and allow it to cool for at least 40 minutes before touching any area with a high-temperature warning label (fig. 10.19).

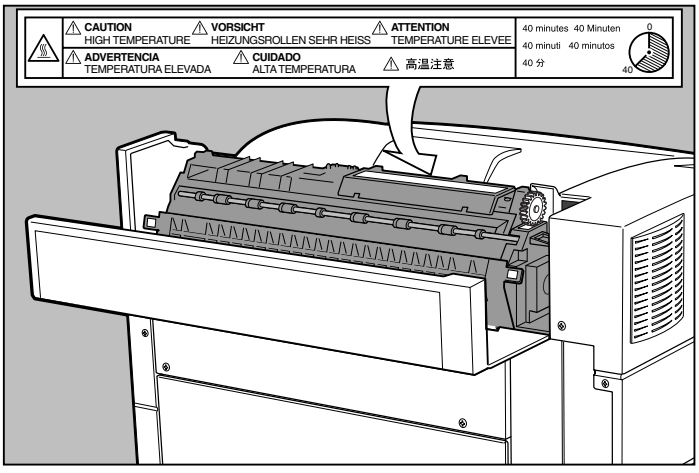

Fig. 10.19 High-Temperature Warning on the Fuser

1. Make sure the printer displays a `PLEASE WAIT` or `READY/IDLE` message. Then, turn off the printer and disconnect the power cord from the power supply (fig. 2.6).

2. Remove all media from the multipurpose feeder and output tray.

3. Unpack the duplexer from its shipping carton and remove all plastic, tape, and stabilizing material. Save the carton and packing material to use for storing the duplexer.

4. Open the fuser cover after the fuser has cooled (fig. 10.20).

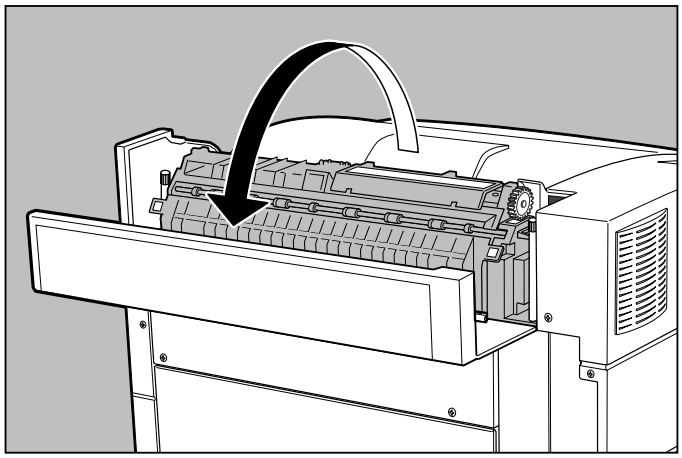

Fig. 10.20 Open the Fuser Cover

5. Push on the two tabs holding the duplex access panel to the fuser cover; then remove the panel (fig. 10.21).

   Caution: Do not use the printer with the duplex access panel removed unless the duplexer is installed.

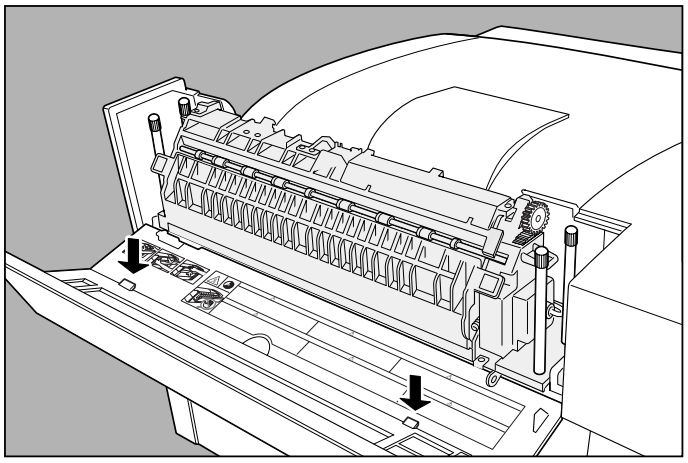

Fig. 10.21 Remove the Duplex Access Panel

6. Close the fuser cover completely to prevent paper jams (fig. 10.22).

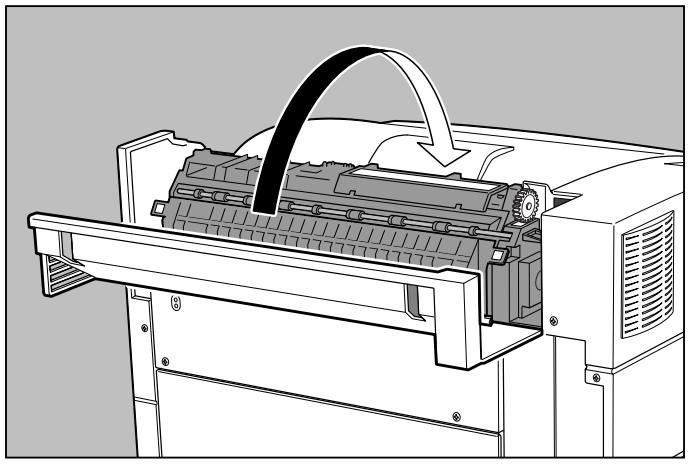

Fig. 10.22 Close the Fuser Cover

7. Place the duplexer over the access slot, setting the duplexer's side triangular protrusions onto the L shaped shelves at the top of the vertical slots in the access panel (fig. 10.23).

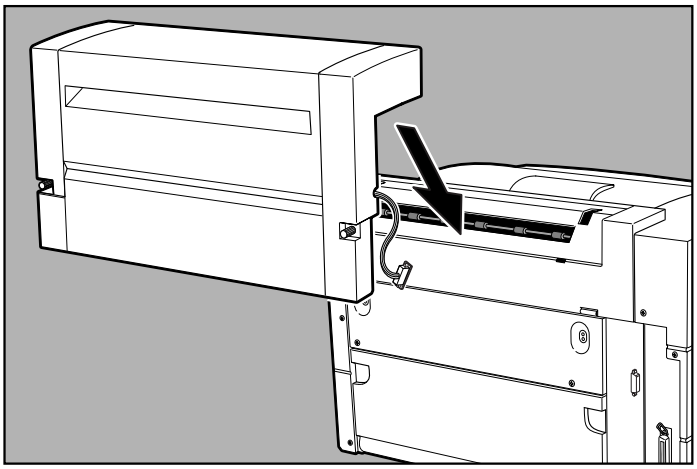

Fig. 10.23 Place the Duplexer on the Printer

8. Attach the duplexer to the printer using the two screws on the back of the duplexer (fig. 10.24).

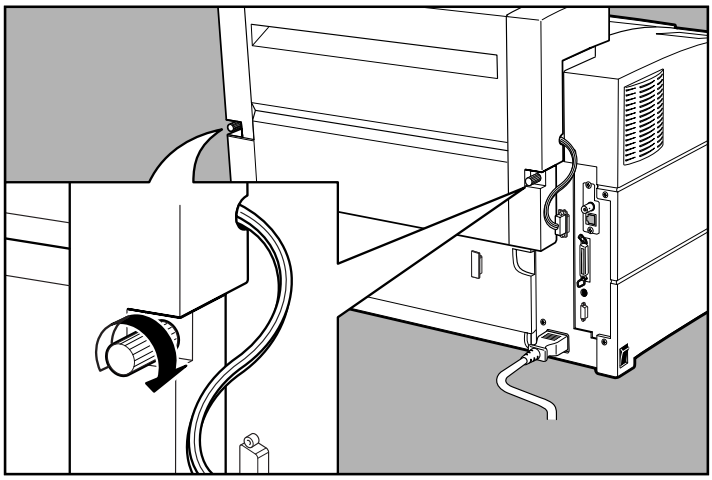

Fig. 10.24 Attach the Duplexer to the Printer

9. Plug the duplexer cable into the printer's duplexer connector and tighten the screws to secure the connection (fig. 10.25).

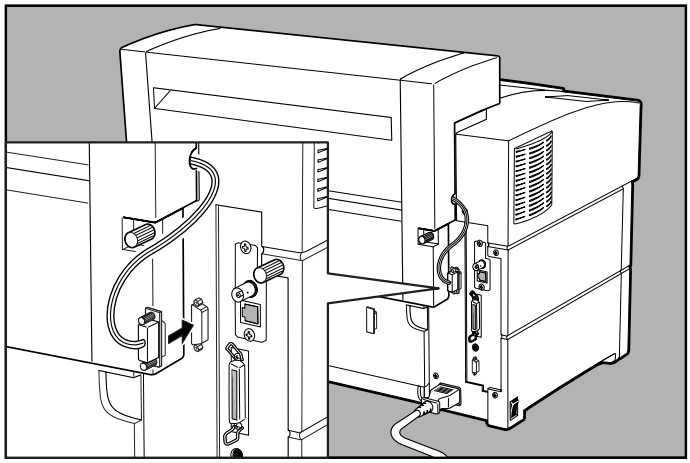

Fig. 10.25 Connect the Duplexer Cable

10. Attach the paper guide to the front of the duplexer (fig. 10.26).

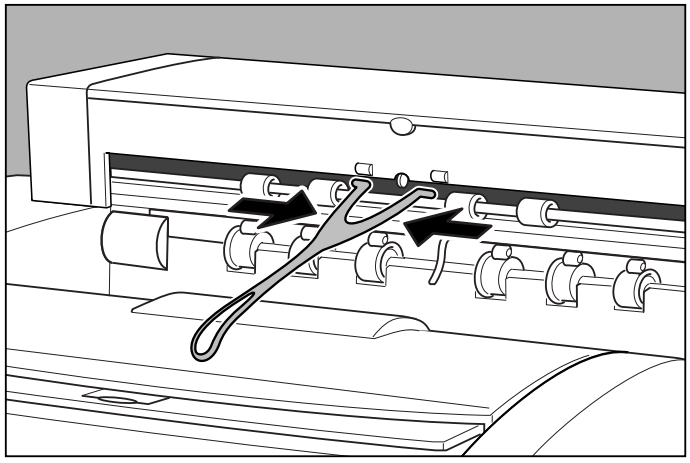

Fig. 10.26 Attach the Paper Guide

Removing the Duplexer

Warning: The fuser becomes very hot during operation. To avoid burns, turn the printer off and allow it to cool for at least 40 minutes before touching any area with a high-temperature warning label (fig. 10.19).

1. Make sure the printer displays a `PLEASE WAIT` or `READY/IDLE` message. Then, turn off the printer and disconnect the power cord from the power supply (fig. 2.6).
2. Remove all media from the multipurpose feeder and output tray.
3. Remove the paper guide (fig. 10.26).
4. Loosen the screws holding the duplexer cable to the printer; then disconnect the cable (fig. 10.25).
5. Loosen the screws holding the duplexer to the printer (fig. 10.24).
6. Lift the duplexer off of the printer and set the duplexer on its back.
7. Align the duplex access panel top tabs in the notches on the top of the fuser cover; snap the bottom tabs into place (fig. 10.27), and close the fuser cover.

   Caution: To prevent burns and paper jams, do not use the printer with the duplex access panel removed unless the duplexer is installed.

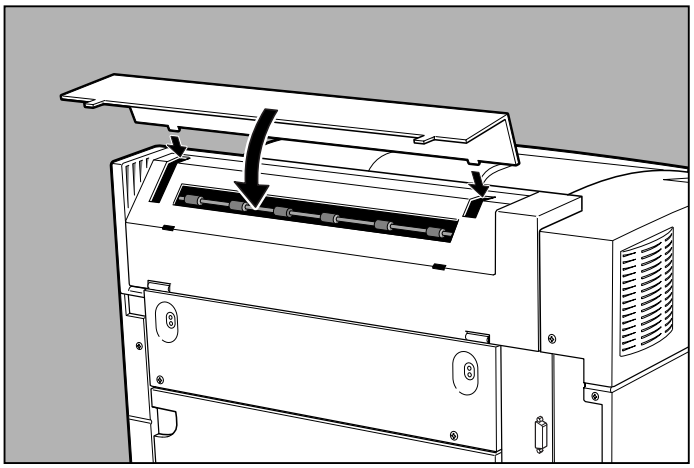

Fig. 10.27 Replace the Duplexer Panel

8. Store the duplexer in its original packing carton.

Controller Board Upgrades

RAM, 2400 dpi resolution, NEIT, 10/100BaseT, and internal IDE hard disk upgrades are controller board modifications. This section covers installing SODIMM (Small outline Dual Insertion Memory Module), firmware (flash ROM), and Ethernet upgrades.

To install a Controller board upgrade

1. Remove the controller board panel.
2. Install the upgrade(s).
3. Replace the controller board panel.

Caution: Static electricity can destroy electronic components, such as your controller board, SODIMMs, firmware, and the hard disk. Use approved anti-static procedures when working with the controller board and upgrades.

Removing the Controller Board Panel

1. Make sure the printer displays a `PLEASE WAIT` or `READY/IDLE` message. Then, turn off the printer and disconnect the power cord from the power supply (fig. 2.6).

2. Remove any media in the multipurpose feeder and output tray.

3. Loosen the two screws on the back of the printer that secure the controller board access panel to the printer (fig. 10.28).

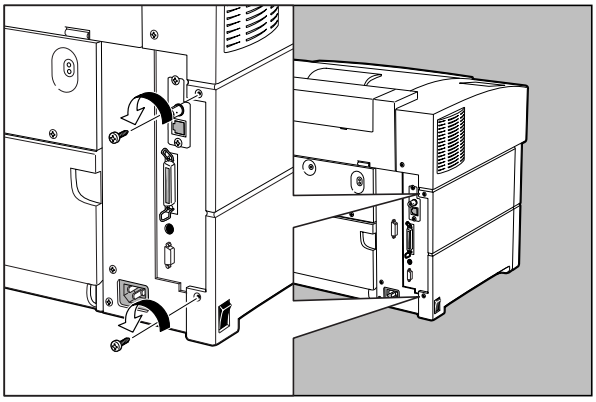

Fig. 10.28 Loosen the Panel Screws

4. Slide the panel toward the back of the printer until it stops. Pull the panel down and out to remove it from the printer (fig. 10.29).

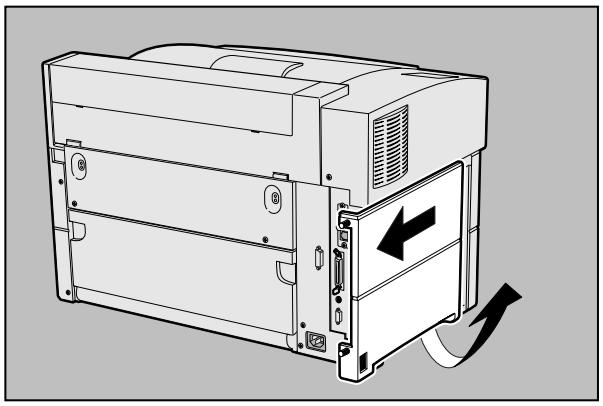

Fig. 10.29 Remove the Panel

Figure 10.30 shows upgrade installation locations.

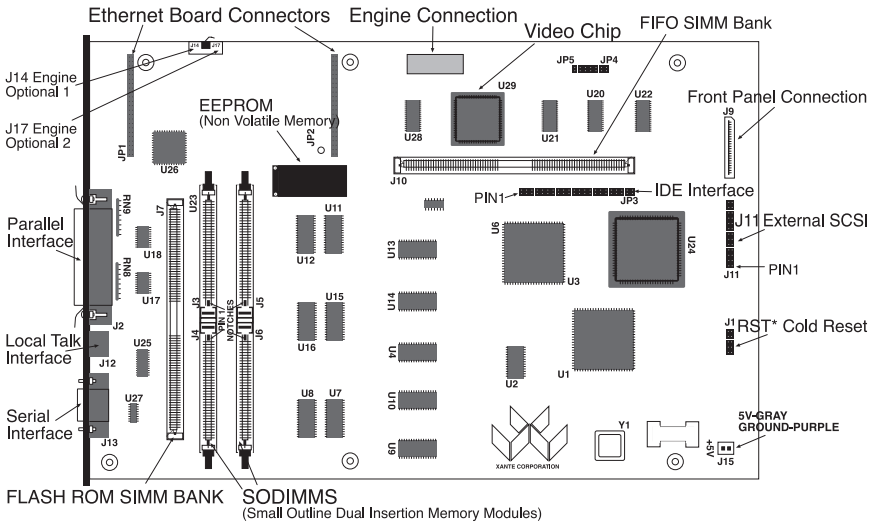

Fig 10.30 Controller Board

Installing SODIMM and Firmware Upgrades

SODIMMs are used for RAM upgrades. NEIT and resolution upgrades are firmware (flash ROM) changes.

RAM Upgrades (SODIMMs)

Standard RAM configuration is 16 MB for the Accel-a-Writer 3N, 32 MB for the 3DN, and 64 MB for the 3G. Your printer features interleaved DRAM for faster processing and better buffering capabilities.

RAM can be upgraded with 16 and 64 MB SODIMMs installed in the DRAM banks (fig. 10.30). SODIMMs must be installed in pairs. If you use both 16 MB and 64 MB SODIMMs, the pair of 64 MB SODIMMs must be installed in the DRAM banks labeled 0 (0/0 and 0/1). The following list shows valid DRAM SODIMM installations for your printer.

Bank 0/0	16 MB	16 MB	64 MB	64 MB	64 MB
Bank 0/1	16 MB	16 MB	64 MB	64 MB	64 MB
Bank 1/0		16 MB		16 MB	64 MB
Bank 1/1		16 MB		16 MB	64 MB
Total RAM	32 MB	64 MB	128 MB	160 MB	256 MB

The following are SODIMM specifications for you printer.

Note: If you purchase SODIMMs from a vendor other than XANTÉ, you should test the RAM before purchasing large quantities. XANTÉ tests show some vendor's RAM, manufactured to specifications, is incompatible with our printers. XANTÉ cannot guarantee the performance of RAM sold by other vendors.

Common Specification for all Densities

Module type:	72-pin SODIMM
Organization:	x32
Parity:	none
Power voltage:	3.3V
I/O voltage:	3.3V tolerant
Speed:	60 ns or better
Mode:	EDO
Refresh:	CAS before RAS
Contact:	gold
Dimension:	2.3" (length) x 1.5" (max height)

Supported Densities and Organizations

Density	Org	Config	RAS/CAS Addressing	Quantity
16 MB	4M x 32	4M x 4 bit	11/11	8
64 MB	16M x 32	4M x 4 bit	12/12	8

Other Firmware Upgrades

NEIT and 2400 dpi resolution SIMM based upgrades require that your printer engine be reset to operate at 10 ppm (letter/A4 output). Although the first of these two upgrades, which changes your printer engine speed, must be done at the factory, the other upgrade may be installed on site.

The 2400 dpi upgrade consists of a Flash SIMM, a FIFO SIMM, and, possibly, a SODIMM RAM upgrade. The NEIT upgrade consists of a replacement flash SIMM. These upgrades can be installed on site.

Note: The optional duplexer and optional 2,000 sheet feeder are available only for 20 ppm printers. They cannot be used on printers that have the 2400 dpi or NEIT upgrade installed.

Installing SODIMMs and SIMMs

RAM SODIMMs are installed in the DRAM banks (see the previous section); flash and FIFO SIMM banks are labeled on the board (fig. 10.30). The RAM SODIMM and the Flash and FIFO SIMMs are different sizes and will only fit in the correct banks.

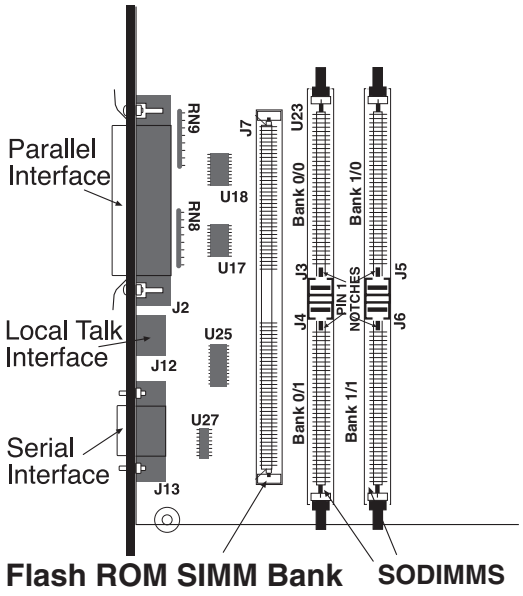

Fig. 10. 31 Flash SIMM and SODDIM Banks

1. Remove the controller board panel following the instructions earlier in this section.

2. Unpack the SIMM or SODIMM.

3. Remove the existing SIMM(s) or SODIMM if necessary using the following procedure (fig. 10.32).

    a. Pull open the latches on each end of the SIMM or SODIMM bank.

        Note: As the SIMM is released by the latches, it tilts out of the bank (fig. 10.32). A SODIMM does not tilt (fig. 10.33)

    b. Pull the SIMM out at a 45° angle or a SODIMM straight up and out of the bank.

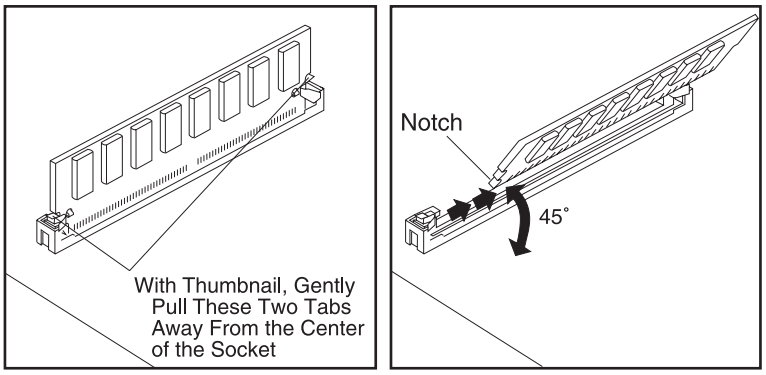

Fig. 10.32 Open the Latches and Remove the SIMM

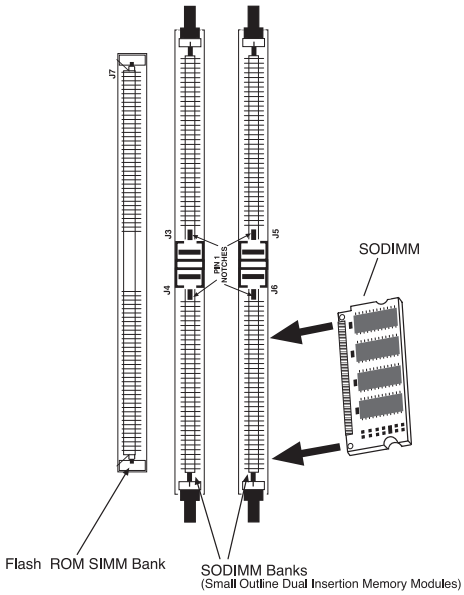

Fig. 10.33 Remove the SODIMM

4. Install the new SIMM or SODIMM using the following steps.

   Note: Install the DRAM SIMM closest to the back of the printer first.

   a. Align the SIMM or SODIMM over its bank using the following appropriate step.

      1) Flash ROM SIMM—tilt the SIMM 45° toward the back of the board (toward the interfaces) with the notched corner toward the top of its bank.

      2) FIFO SIMM—tilt the SIMM 45° toward the top of the board with the notched corner to the left of its bank.

      3) SODIMM—hold the SODIMM straight above its bank with the notched corner toward the center of the DRAM bank.

b. Push the SIMM or SODIMM into its bank using the following appropriate step.

1) Flash ROM or FIFO SIMM—tilt the SIMM up in its bank until it is positioned at a 90° angle with the controller board making sure the bank latch snaps into place (fig. 10.34).

2) SODIMM—push the SODDIM straight down into its bank until the bank latch snaps into place.

Caution: Do not force a SIMM or SODIMM into place. If it does not go in easily, realign it making sure that the notched corner is positioned correctly and that the SIMM or SODIMM is seated correctly in its bank.

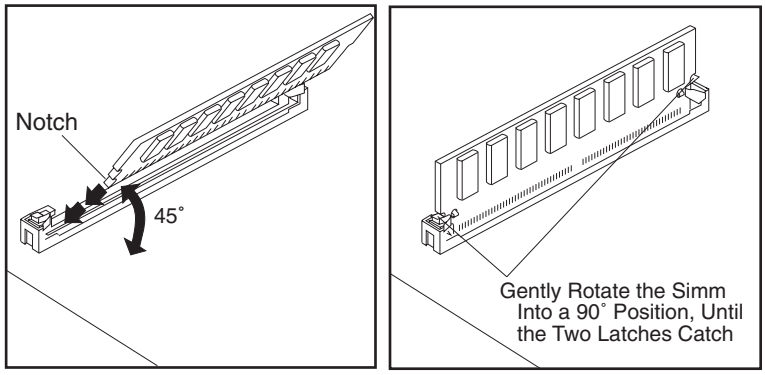

Fig. 10.34 Installing a SIMM

Replacing the Controller Board Panel

After installing the upgrade(s), replace the controller board panel.

1. Insert the tab on the top of the controller board panel into the slot above the opening (fig. 10.29).

2. Align tabs on the front of the controller board panel with the slots in the front of the opening; then slide the panel forward into place (fig. 10.29).

3. Secure the controller board panel to the printer by tightening the screws on the back of the panel (fig. 10.28).

4. Reconnect all interface cables and reconnect the power cable to the printer and the AC power supply.

Internal IDE Hard Disk Upgrade

The internal hard disk upgrade provides extra space to store downloaded fonts and allows you to implement the Font Accelerator and spooling features on your printer. See “Printer Options,” earlier in this chapter to order this upgrade. See “Font Accelerator” and “Spooler” in chapter 6 and “Procedures” in chapter 3 (Macintosh) or 4 (PC).

The internal hard disk upgrade can be factory or user installed. Installation instructions are included with the upgrade.

10/100BaseT Upgrade

You can upgrade the printer’s standard 10BaseT unshielded twisted pair configuration for the Ethernet port to a 10/100BaseT configuration. See “Printer Options,” earlier in this chapter to order this upgrade. See “Connecting to the Ethernet Port” in chapter 2.

This upgrade can be factory or user installed. Installation instructions are included with the upgrade.

◊ ◊ ◊

Chapter 11 - Troubleshooting

Chapter Overview

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Notes

Introduction

This chapter describes the status messages that can direct you to the source of a problem, suggests solutions for some typical printer setup and print quality problems, and provides information about preventing and clearing paper jams.

Status Messages

Printer front panel window messages provide printer status information and can help you determine the source of a problem or paper jam.

`Accel-a-Writer 3X`	Appears when the printer is first turned on, before the initialization process begins. The *X* will be replaced by the letter of the printer model.
`DUPLEX COVER OPEN`	The duplexer cover is not closed properly.
`DUPLEX PAPER JAM`	A paper jam has occurred in or before the duplexer.
`EARLY PAPER JAM`	A media jam has occurred along the paper path caused by media reaching a position earlier than expected.
`E:FIFO`	The FIFO SIMM or SODIMM is not present, is not properly inserted, or is broken.
`E:FIXING ROLLER`	There is a hardware problem with the fuser.
`E:FUSER`	There is an error with the fuser, such as a temperature inaccuracy.
`E:LASER`	There is a hardware problem with the laser.

E:MOTOR	There is a hardware problem with the motor.
EXIT PAPER JAM	A media jam has occurred after the paper has been printed but before it has been deposited in the output tray.
FRONT COVER OPEN	The multipurpose feeder cover is open.
FRONT PAPER JAM	A media jam has occurred caused by the media not being pulled from the tray properly.
FULL STACK	The output tray is full.
FUSER COVER OPEN	The fuser cover is not closed properly.
HOLDING	The printer is offline and data is coming across one (or more) of the interfaces. The printer cannot receive the data when it is offline.
INITIALIZING	The printer is warming up and performing setup routines.
LATE PAPER JAM	A media jam has occurred caused by the media not reaching the exit roller at the correct time.
LOW PAPER	The paper stack is low in the selected cassette or optional 2,000 sheet feeder. The message appears during each paper feed when the paper stack is fewer than approximately 25 pages.
LOW TONER	Toner in the cartridge is low or needs to be redistributed.
NO TONER CART	The toner cartridge is either not in the printer or not seated in place.

OFFLINE	The printer is off line. It cannot receive or process data.
PAPER JAM	A media jam has occurred along the paper path.
PAPER OUT	There is no paper in the selected cassette or 2,000 sheet feeder, the selected cassette or feeder is not properly installed, or tray chaining is selected and all trays do not contain the same size media.
PROCESSING	The printer is processing a job to print.
READY/FONT ACCEL	Font Accelerator is updating the RAM disk at runtime with the most recently used fonts.
READY/IDLE	The printer is on line and ready to accept a print job.
READY/PRINTING	The printer is completing a print job and ready to accept a new job to begin processing.
RESET 1	The printer has reset to factory default settings and the On Line and Tray Select keys can be released safely.
RESETTING JOB	The printer is resetting after the Reset key has been pressed and an active job has been cancelled.
TEST PRINT	The printer is printing a test page.
WAITING	The printer is processing a job and waiting to receive more data before printing.
WARMING UP	The printer is warming up.

Power and Setup Issues

This section provides tips for resolving problems concerning power to the printer and host or concerning printer setup.

My printer has no power.

- Make sure the power cord is plugged into the printer and the power source. See “Connecting the Power Cord” in chapter 2.
- Make sure the printer is turned on. See “Turning the Printer On” in chapter 2.
- Make sure the power source is grounded, working, and rated for 100 V, 15 A.

The printer has power but no start-up page prints.

- Make sure the start-up page feature is enabled. See “Start-up Page” in chapter 6.
- Check the front panel window for a status message. See “Status Messages” in this chapter.
- Make sure the toner cartridge is installed properly. See “Toner Cartridge” in chapter 2.
- Make sure there is paper in the selected tray. If you are using a paper cassette, make sure it is installed properly. See “Paper Cassette” and “Multipurpose Feeder” in chapter 2.

My printer does not respond properly to my Macintosh using a LocalTalk connection.

- Make sure all cables are connected and seated properly. See “Connecting to the LocalTalk Port” in chapter 2.
- Make sure both ends of the LocalTalk network have terminating resistors installed. See “Connecting to the LocalTalk Port” in chapter 2.

- Make sure the Macintosh is setup to communicate using LocalTalk. See “Connecting to the LocalTalk Port” in chapter 2.
- Make sure the correct Adobe PostScript printer driver and your printer’s PPD are installed and configured properly. See “Adobe PostScript Printer Drivers” in chapter 3.
- Make sure the correct Adobe PostScript printer driver and your printer are selected in the Chooser. See “Adobe PostScript Printer Drivers” in chapter 3.
- Make sure the AppleTalk button is active in the Chooser.
- Make sure the LocalTalk port is enabled on the printer. See “Interface Control” in chapter 6.
- Make sure the printer is on line. See “Interface Control” in chapter 6.
- Make sure you install screen fonts to match the printer fonts you use. See “XANTÉ Utilities CD-ROM” in chapter 3.

My printer does not respond properly to my PC using a parallel connection.

- Make sure all cables are connected and seated properly. See “Connecting to the Parallel Port” in chapter 2.
- Make sure the correct Adobe PostScript printer driver and your printer’s PPD are installed and configured properly. See “Adobe PostScript Printer Drivers” in chapter 4.
- Make sure the parallel port is enabled on the printer. See “Interface Control” in chapter 6.

  Note: If printing binary data, make sure the parallel mode is set to PS TBCP.
- Make sure the printer is on line. See “Interface Control” in chapter 6.
- Make sure the previous job has been cleared from the printer by sending an end-of-job marker using the D.PS file. See “PS_Files Folder” in chapter 4.

- Set the data format to ASCII in your application.

My *printer does not respond properly to my PC using a serial connection.*

- Make sure all cables are connected and seated properly. See “Connecting to the Serial Port” in chapter 2.
- Make sure the correct Adobe PostScript printer driver and your printer’s PPD are installed and configured properly. See “Adobe PostScript Printer Drivers” in chapter 4.
- Make sure the parallel port is enabled on the printer. See “Interface Control” in chapter 6.
- Make sure the printer is on line. See “Interface Control” in chapter 6.
- Make sure communication settings in your application, printer, and PC match. See “Interface Control” in chapter 6.
- Make sure the previous job has been cleared from the printer by sending an end-of-job marker using the D.PS file. See “PS_Files Folder” in chapter 4.
- Set the data format to ASCII in your application.

My printer does not respond properly to my host using an Ethernet connection.

- Make sure all cables are connected and seated properly. See “Connecting to the Ethernet Ports” in chapter 2.
- Make sure the correct Adobe PostScript printer driver and your printer’s PPD are installed and configured properly. See “Adobe PostScript Printer Drivers” in chapter 3 (Macintosh) or 4 (PC).
- Make sure the printer’s Ethernet interface is configured properly for your operating environment. See chapter 5 and “Interface Control” in chapter 6.

Note: If your printer is configured as a Novell Print Server and the Novell network becomes unavailable, the printer may disable the Novell Print Server interface. When the Novell network is available, re-enable the interface using the front panel configuration menus or XANTÉ Command Center.

- Make sure the Macintosh or PC is configured properly to communicate using the Ethernet connection. See chapter 5.
- Make sure the printer is on line. See "Interface Control" in chapter 6.
- Make sure the network is available.
- Reduce the number of items on the network to determine the source of the problem.
- Make sure that you are using a crossover or UTP test cable if your are using twisted pair cable to direct connect a printer and a Ethernet configured host without a hub.
- Do not use a transceiver that allows devices to daisy chain on a twisted pair network.

When I print an image that I have scanned, it is so dark that much of the detail is lost.

- Adjust the printer's gamma setting to change the image's midrange grayscale values. See "Halftone Calibration Technology (Gamma)" in chapter 6.
- Rescan the image with a higher resolution. Generally, black and white images should be scanned at a resolution of 2 times the line screen desired on the printed output. Multiply this number by the ratio of the printed output size to the original image size.

  SR = Print Image LPI x 2 x Image Size Ratio

  SR = the Scan resolution

  Image Size Ratio = printed image size/original image size

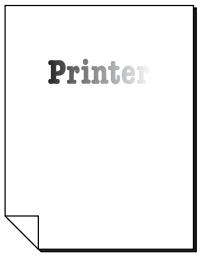
For example, for a line screen of 95, set the scanner resolution 190 dpi (95 x 2). To print the same image at 75% of original size, set the scanner resolution to 142 dpi (95 x 2 x .75).

Scanning the image at a lower than optimum resolution results in less detail. Scanning at a higher resolution increases file size and processing time, and it may only slightly increase the amount of detail.

Print Quality Issues

This section provides tips for resolving output quality problems.

Solid black print on the image or text is washed out.

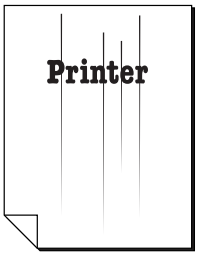


- Media may be damp or otherwise damaged. Make sure it meets the requirements in "Media Specifications" in chapter 7. If necessary, replace the media. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- Toner may have settled in the cartridge. Remove and shake it gently to redistribute the toner. See "Toner Cartridge" in chapter 2.
- The density setting may not be appropriate. Adjust it. See "Adjusting Print Density" in chapter 6.
- The toner may be low in the cartridge or the cartridge may be old or damaged. Replace it. See "Toner Cartridge" in chapter 2.

Random black dots appear on the printed media.

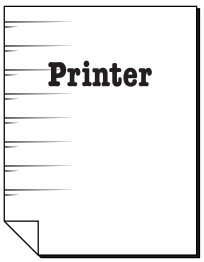
- Media may not meet the requirements in "Media Specifications" in chapter 7. If necessary, replace the media. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- The toner cartridge may need replacing. See "Toner Cartridge " in chapter 2.

Vertical black streaks appear on the printed media.



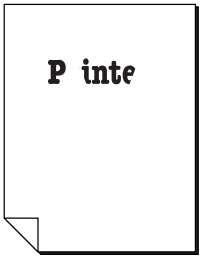
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.

Repetitive defects appear on the printed media.



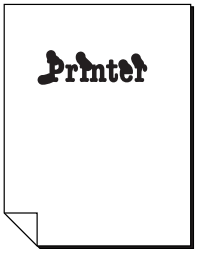
- The paper path may be dirty. Print several blank sheets to clean the path. If necessary, clean the printer. See "Cleaning the Printer" in chapter 9. Use the cassette cover to prevent dust and debris from settling on the paper and getting into the printer.
- Toner may have settled in the cartridge. Remove and shake it gently to redistribute the toner. See "Redistributing Toner" in chapter 6.
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.

Some characters are missing or only partially printed.



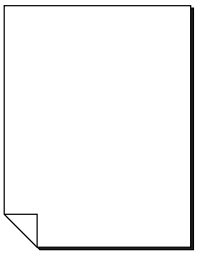
- Media may not meet the requirements in "Media Specifications" in chapter 7. If necessary, replace the media. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.

Toner on the printed media smears when rubbed.



- Media may be damp or otherwise damaged. Make sure media meets the requirements in "Media Specifications" in chapter 7. If necessary, replace the media. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- The fuser may not be working properly. The printer displays the E: FUSER status message if there is a hardware problem with the fuser.

Instead of my image (or text), the output is a blank page.



- The sealing tape may not be pulled out of the toner cartridge. Remove the cartridge and pull out the tape. See "Toner Cartridge" in chapter 2.
- The printer may feed two or more sheets of media at a time. Reduce the size of the media stack. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- The density setting may need adjusting. See "Adjusting Print Density" in chapter 6.
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.

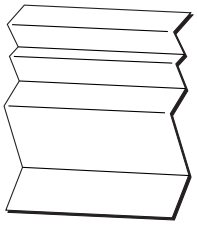
Instead of my image (or text), the output is a solid black page.

- The density setting may need adjusting. See "Adjusting Print Density" in chapter 6.
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.

Blank areas appear in my image (or text).

- Media may be damp or otherwise damaged. Make sure the media meets the requirements in "Media Specifications" in chapter 7. If necessary, replace the media. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- The sealing tape may not be pulled completely out of the toner cartridge. Remove the cartridge and pull out the tape. See "Toner Cartridge" in chapter 2.

Media comes out of the printer creased or crumpled.

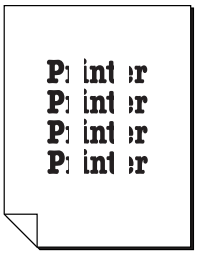


- Media may be damp or otherwise damaged. Make sure the media meets the requirements in "Media Specifications" in chapter 7. If necessary, replace the media. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- Media may be loaded improperly. Make sure it is loaded print side up.

Print is smudged or small spaces are plugged.

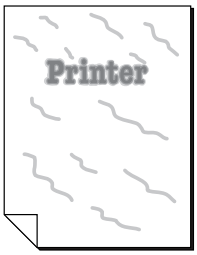
- Media may be damp or otherwise damaged. Make sure the media meets the requirements in "Media Specifications" in chapter 7. If necessary, replace the media. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.

Vertical blanks appear on my image (or text).



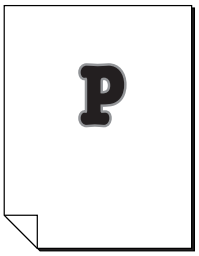
- The toner cartridge may not be properly installed. Reinstall it. See "Toner Cartridge" in chapter 2.
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.

Print is blurred on the output.



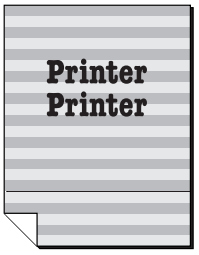
- The density setting may need adjusting. See "Adjusting Print Density" in chapter 6.
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.

Bold print appears shaded on the output.



- The density setting may need adjusting. See "Adjusting Print Density" in chapter 6.
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.

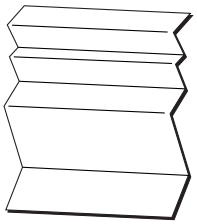
Horizontal banding appears on the printed image.



- Paper, dust, and toner may have accumulated inside the printer. Clean it. See "Cleaning the Printer" in chapter 9. Use the cassette cover to prevent dust and debris from settling on the paper and getting into the printer.
- Media may be damp or otherwise damaged. Make sure it meets the requirements in "Media Specifications" in chapter 7. If necessary, replace the media. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- Toner may have settled in the cartridge. Remove and shake it gently to redistribute the toner. See "Toner Cartridge" in chapter 2.
- The density setting may need adjusting See "Adjusting Print Density" in chapter 6.
- The toner cartridge may need replacing. See "Toner Cartridge" in chapter 2.
- Printer or application settings may need to be adjusted for the image.
    - The line screen may need to be adjusted in your application. Lowering the line screen (at a set resolution) produces larger dots and more levels of gray, which result in a more accurate image representation.

- The resolution may need to be adjusted. Raising the resolution (at a set line screen) produces more levels of gray, which results in a more accurate image representation.

When I use the duplexer, the paper wrinkles and the corners fold over.



- Media may not meet the requirements in "Media Specifications" in chapter 7. If necessary, replace the media. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2.
- Media my be loaded improperly. See "Paper Cassette" and "Multipurpose Feeder" in chapter 2 and "2,000 Sheet Feeder" in chapter 10.

Only a portion of my document printed.

- Make sure the document size in your application's page setup matches the document size specified in the Print dialog box.

Mechanical Issues

This section provides tips for resolving problems with the printer's mechanical setup.

My printer is making funny noises.

- Make sure the printer is set up on a stable, level surface. See "Printer Location" in chapter 2.
- Make sure the multipurpose feeder cover is closed firmly.

- Make sure all paper cassettes are seated properly. See “Paper Cassette” in chapter 2.
- If the optional duplexer is installed, make sure it is connected properly. See “Duplexer” in chapter 10.
- There may be a foreign object in the printer. Turn off the printer and remove the object. See chapter 2 for the basic printer setup and chapter 10 for the optional paper feeder and duplexer setup.

I can’t remove the paper cassette.

- Do not remove the cassette by force.
- Make sure you are using the proper procedure to remove the paper cassette. See “Paper Cassette” in chapter 2.
- The cassette may be jammed. This can occur if the power switch is turned off or the multipurpose feeder opened during printing. Turn off the printer and wait a few seconds. Turn on the printer and wait for the `READY/IDLE` message; then, try to remove the cassette.

Paper Jams

This section contains suggestions for solving paper jams.

Preventing Paper Jams

Use the following guidelines to prevent most paper jams.

- Make sure the printer is level and in an appropriate location. See “Printer Location” in chapter 2.
- Make sure media meets the guidelines in “Media Specifications” in chapter 7.
- Make sure media is stored following the guidelines in “Media Specifications” in chapter 7.

- Make sure media is loaded properly in the selected cassette or multipurpose feeder.
    - Make sure the correct size media is loaded in the selected cassette or multipurpose feeder.
    - Follow the guidelines for the type of media you are using. See “Media Types” in chapter 7.
    - Make sure media is loaded according to the procedures and guidelines in “Paper Cassette” and “Multipurpose Feeder” in chapter 2 and “Media Sources” in chapter 7.
- Make sure the output tray does not become overfilled.
- Remove all media from the multipurpose feeder before turning on the printer. Reinsert the media when the printer displays the `READY/IDLE` message.
- Do not use the printer with the duplexer access panel removed unless the duplexer is installed.
- Use XANTÉ supplied toner.
- Use XANTÉ Myriad film.
- Keep the printer clean. See “Cleaning the Printer” in chapter 9. Use the cassette cover to prevent dust and debris from settling on the paper and getting into the printer.

Locating Paper Jams

Paper Jams occur along the paper path in the areas illustrated in figure 11.1

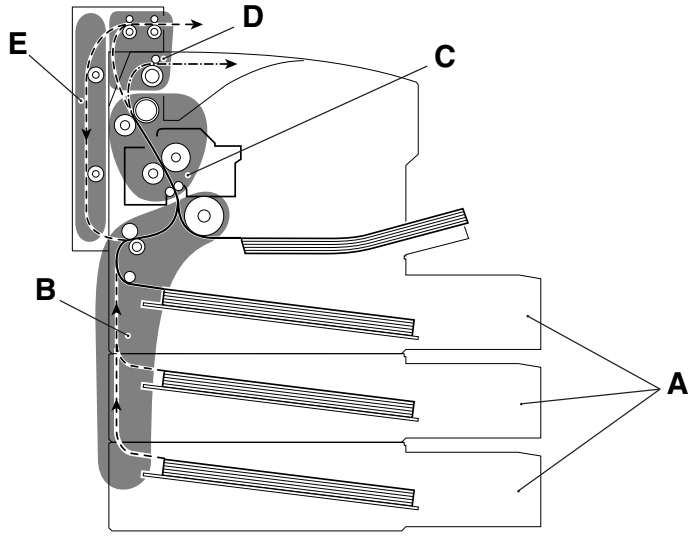


Fig. 11.1 The Printer Paper Path

- In the media source (either a paper cassette or the multipurpose feeder) and the toner cartridge (A)
- In the back of the paper feeder (B)
- Around the toner cartridge (C)
- In the paper exit area under the fuser cover (D)
- In the optional duplexer (E).

Use one of the following two procedures to locate a paper jam; then see "Clearing Paper Jams" for details on removing the jam.

Locating Jams on a Printer *without* the Duplexer

1. Check for paper jams in the paper cassette or multipurpose feeder from which the media was fed.
2. Check for paper jams in the paper exit area under the fuser cover.

3. Check for paper jams around the toner cartridge.

4. Check for paper jams in the back of the paper feeder from which the media was fed.

5. Reassemble the printer.

Locating Jams on a Printer *with* the Duplexer

1. Check for paper jams in the optional duplexer.

2. Check for paper jams in the paper cassette or multipurpose feeder from which the media was fed.

3. Check for paper jams around the toner cartridge.

4. Check for paper jams in the back of the paper feeder from which the media was fed.

5. Remove the optional duplexer; then check for paper jams in the paper exit area, under the fuser cover.

6. Reassemble the printer.

Clearing Paper Jams

This section describes removing paper jams from specific locations.

Warning: Remove paper jams slowly and carefully to prevent tearing the paper. Paper scraps in the printer can become a fire hazard.

Clearing a Paper Cassette or Multipurpose Feeder Jam

1. Squeeze top cover latch to release the lock (fig. 11.2).

   Note: If media is in the output tray, remove it before lifting the top cover.

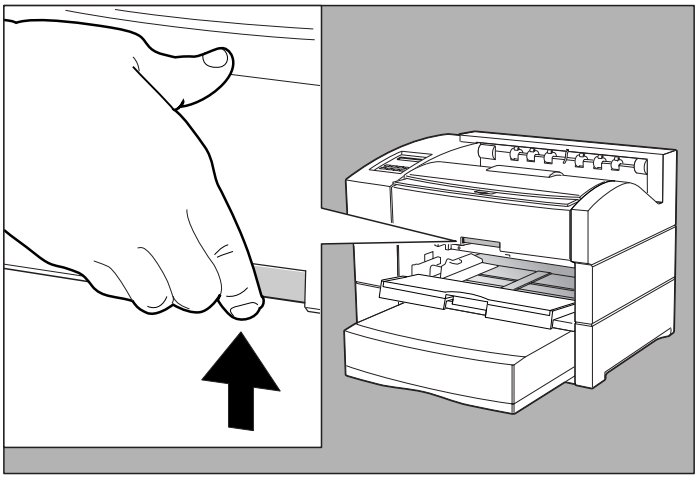


Fig. 11.2 Release the Top Cover Latch

2. Lift the top cover. The multipurpose feeder opens automatically as you open the top cover (fig. 11.3).

   Caution: The multipurpose feeder does not open to a 90° angle. To prevent damage, do not exert strong pressure or place heavy objects on the feeder.

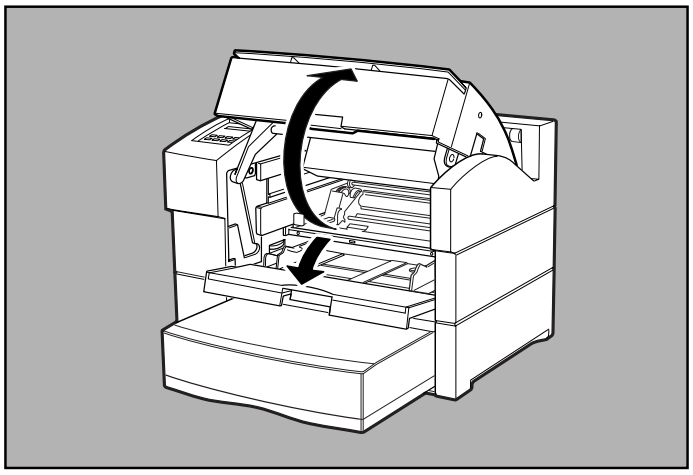


Fig. 11.3 Open the Top Cover and Multipurpose Feeder

3. Remove all media from the multipurpose feeder (fig. 11.4).

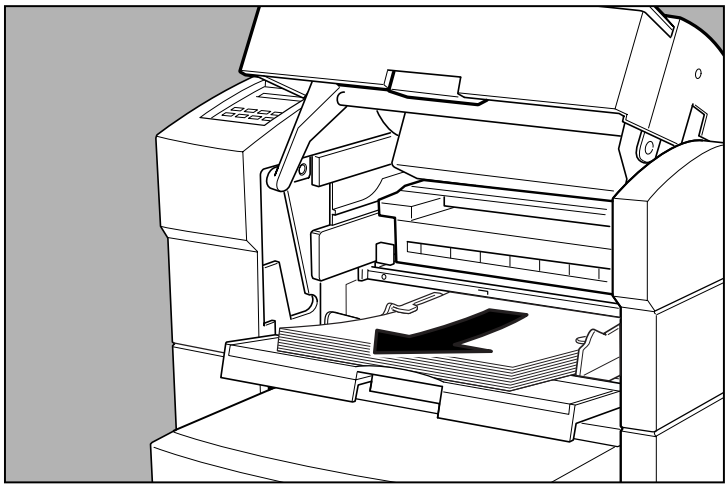


Fig. 11.4 Remove Media from the Multipurpose Feeder

4. Remove any jammed paper from the multipurpose feeder (fig. 11.5).

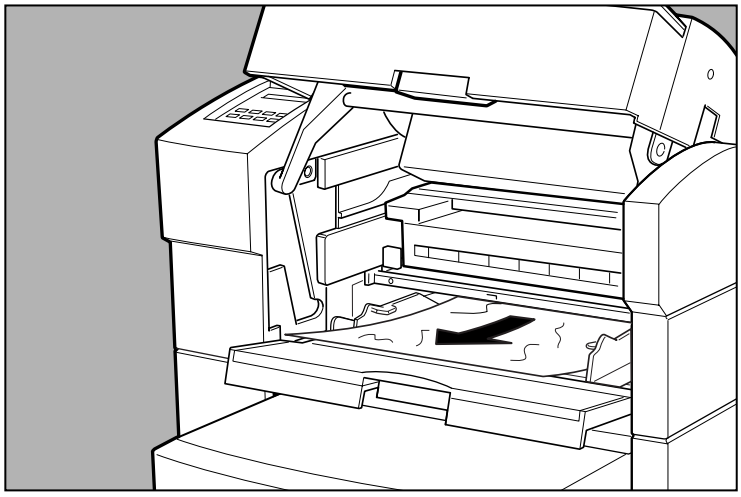


Fig. 11.5 Remove Media Jam from the Multipurpose Feeder

5. Remove the cassette from the printer.

   a. Pull the cassette straight out until it stops (fig. 11.6).

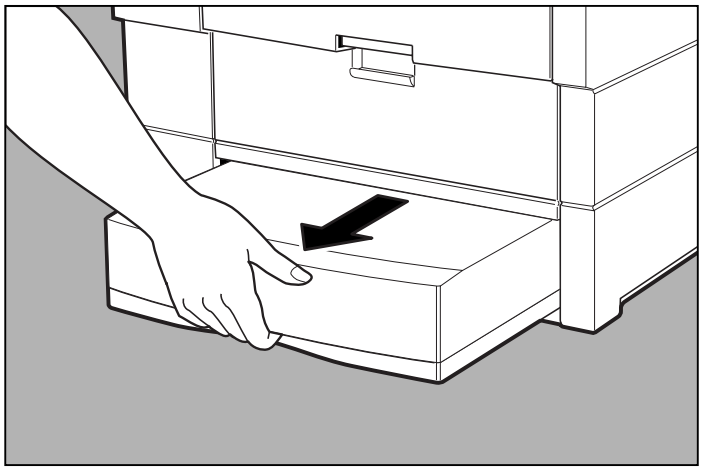


Fig. 11.6 Pull out the Cassette

   b. Lift up slightly; then pull the cassette from the printer (fig. 11.7).

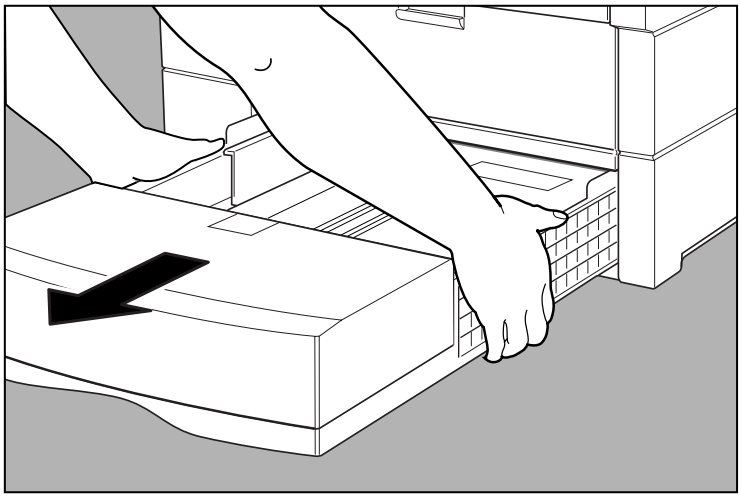


Fig. 11.7 Lift up and Pull out the Cassette

6. Remove any crumpled paper from the cassette (fig. 11.8).

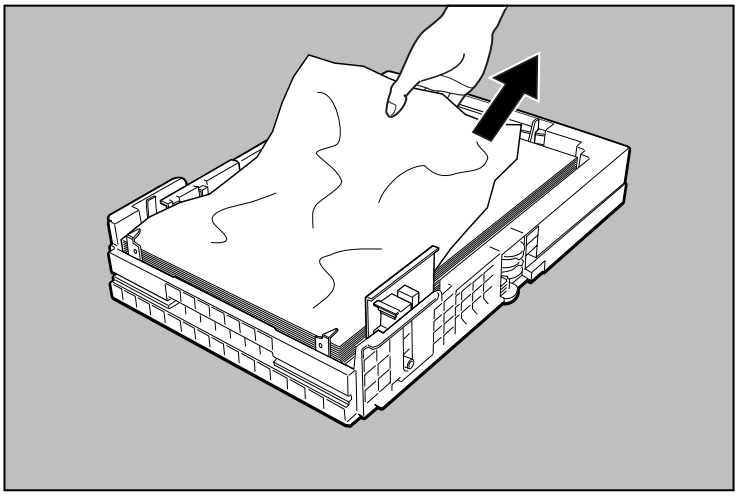


Fig. 11.8 Remove Media Jam from the Cassette

7. Remove any jammed paper from inside the paper feeder (fig. 11.9).

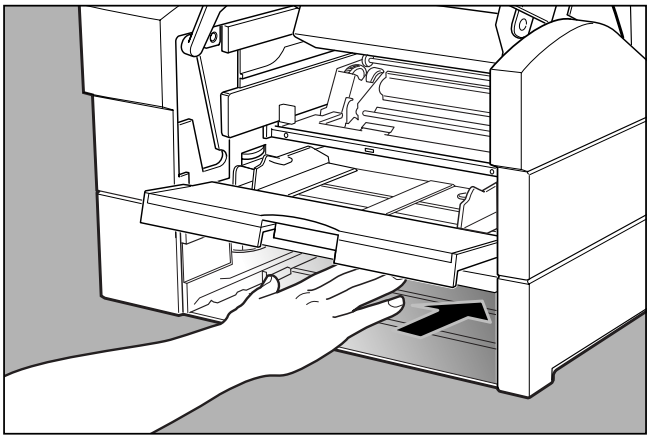


Fig. 11.9 Remove Media Jam from the Paper Feeder

Clearing a Back of Paper Feeder Jam

1. Open the feeder‘s back cover by grasping the notch on the top side of the cover and pulling down (fig. 11.10).

   Caution: The cover may be held in place by two strong springs or by magnets. If so, hold it open with one hand to avoid pinching your fingers.

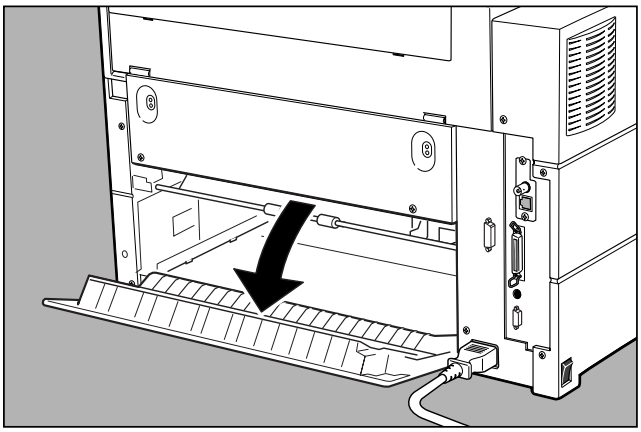


Fig. 11.10 Open the Back Cover

2. Remove any jammed paper in the back of the paper feeder (fig. 11.11).

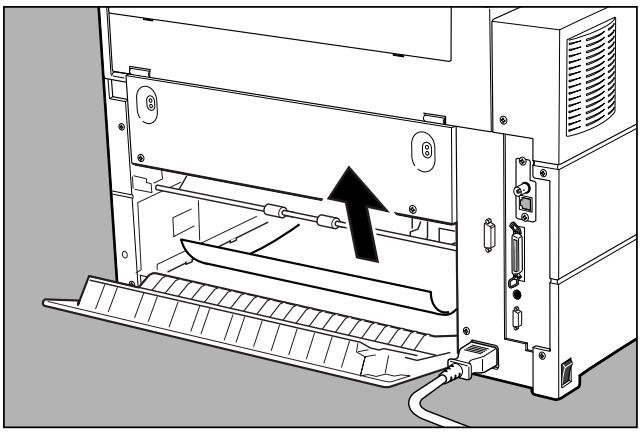


Fig. 11.11 Remove Media Jam from the Back of the Paper Feeder

3. Close the feeder's back cover (fig. 11.12).

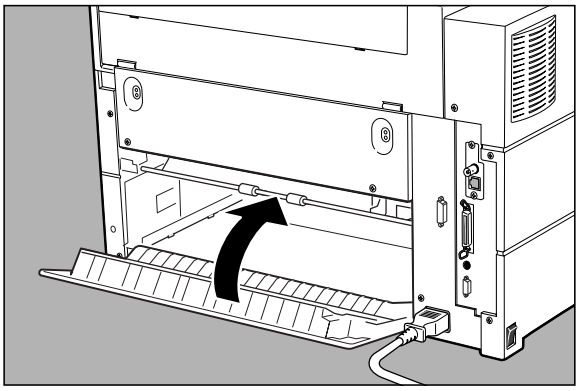


Fig. 11.12 Close the Back Cover

Clearing a Toner Cartridge Area Jam

Warning: The inside of the printer becomes very hot during operation. Do not touch any area with a high-temperature warning label (fig. 11.13) without first turning off the printer and allowing it to cool for at least 40 minutes.

Note: When the printer is turned off, all print job information still in memory is lost; the Jam Recover feature cannot print the last page processed.

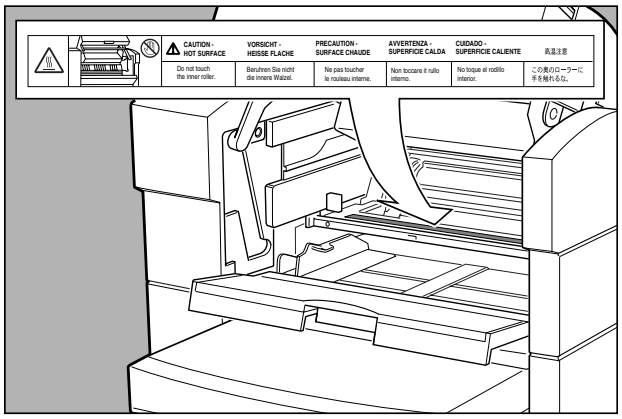

CAUTION - HOT SURFACE
Do not touch the inner roller.
VORSICHT - HEISSE FLACHE
Beruhren Sie nicht die innere Walzeil.
PRECAUTION - SURFACE CHAUDE
Ne pas toucher le rouleau interne.
AVVERTENZA - SUPERFICIE CALDA
Non toccare il rullo interno.
CUIDADO - SUPERFICIE CALIENTE
No toque el rodillo interior.
高温注意
この奥のローラーに手を触れるな。

Fig. 11.13 High-Temperature Warning Inside the Printer

1. Remove the toner cartridge from the printer by grasping it by the handles on the top and pulling it slowly out of the printer (fig. 11.14).

   Caution: Once you begin pulling the toner cartridge out of the printer, remove it completely. The drum shutter may not open properly if the cartridge is partially pulled out of the printer and then pushed back in. This can damage the cartridge or result in a malfunction.

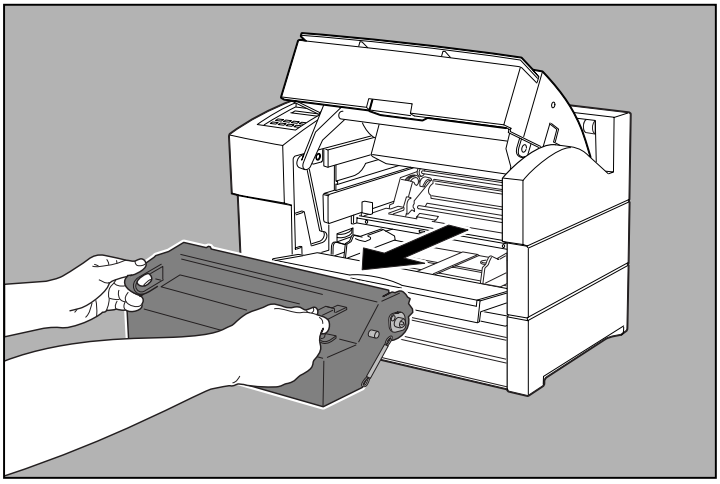


Fig. 11.14 Remove the Toner Cartridge

Note: Place the toner cartridge flat on a level surface. To prevent stains, protect the surface with old newspapers or cloth. Follow all procedures in "Handling the Toner Cartridge" in chapter 2.

2. Remove any jammed paper from the back of the multipurpose feeder and from the toner cartridge area (fig. 11.15).

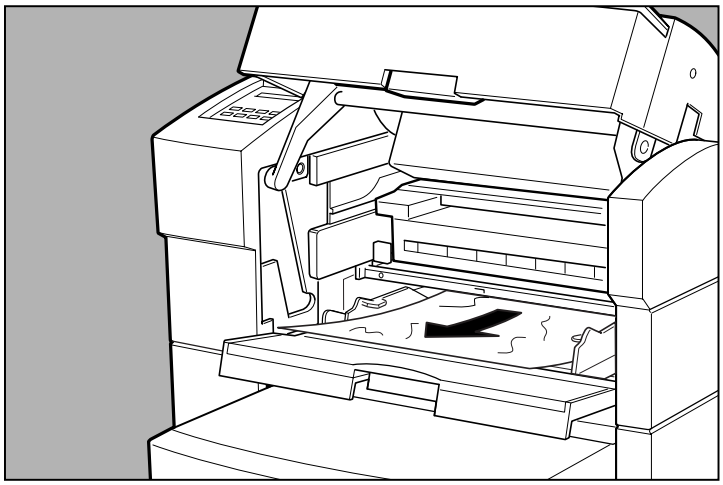


Fig. 11.15 Remove Media Jam from the Toner Cartridge Area

Clearing a Paper Exit Area Jam

Warning: The fuser becomes very hot during operation. Do not touch any area with a high-temperature warning label (fig. 11.16) without first turning off the printer and allowing it to cool for at least 40 minutes.

Note: When the printer is turned off, all print job information still in memory is lost; the Jam Recover feature cannot print the last page processed.

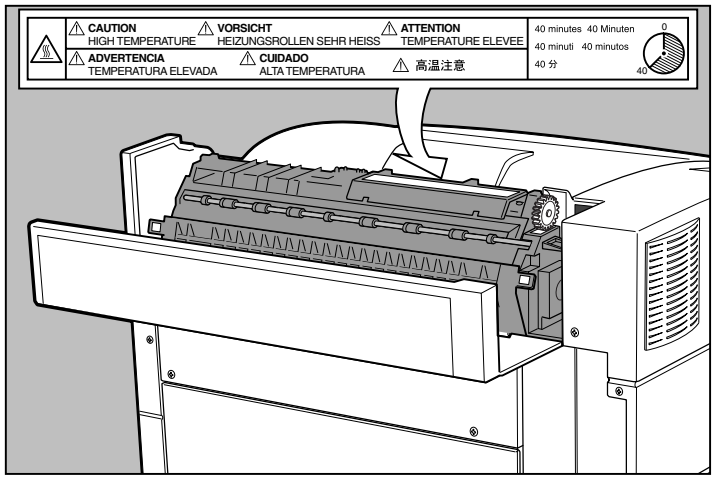


Fig. 11.16 Fuser High-Temperature Warning Label

Note: If the duplexer unit is installed, you must remove it before you can perform these steps. See "Duplexer" in chapter 10.

1. Open the fuser cover by pulling it toward the back of the printer (fig. 11.17).

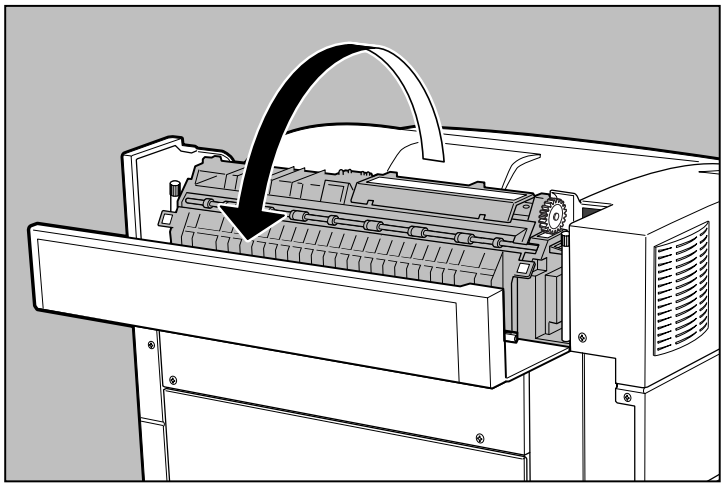


Fig. 11.17 Open the Fuser Cover

2. Open the fuser drum cover using the colored tabs on each side of the cover (fig. 11.18).

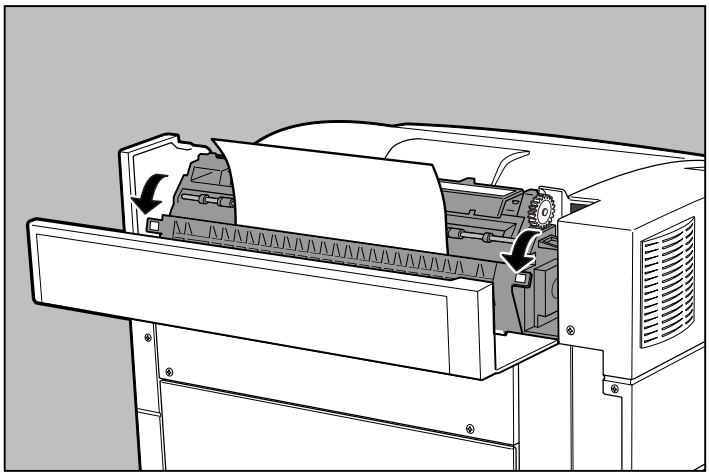


Fig. 11.18 Open the Fuser Drum Cover

3. Remove any jammed paper from the fuser area (fig. 11.19).

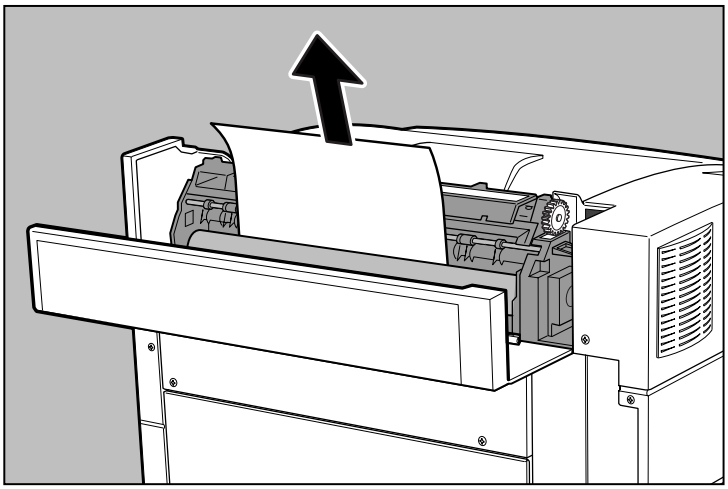


Fig. 11.19 Remove Media Jam from the Fuser

4. Close the fuser drum cover using the colored tabs on each side of the cover (fig. 11.20).

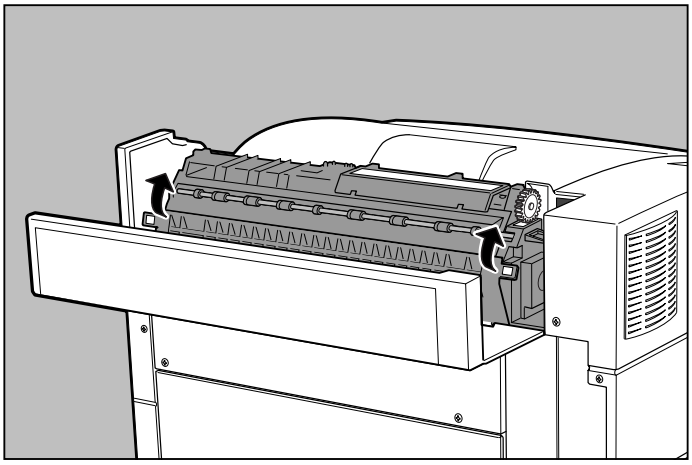


Fig. 11.20 Close the Fuser Drum Cover

5. Close the fuser cover (fig. 11.21).

   Note: Make sure the fuser cover is closed properly to prevent print quality problems.

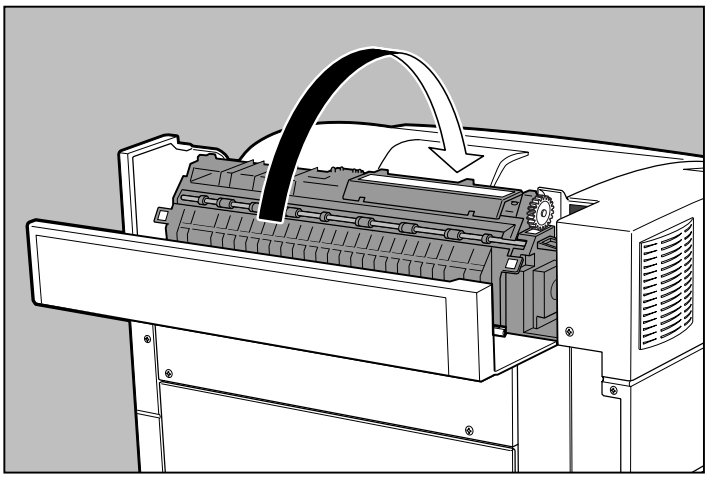


Fig. 11.21 Close the Fuser Cover

Note: If the duplexer unit was installed on the printer, reinstall it after removing the media jam from the paper exit area. See "Duplexer" in chapter 10.

Clearing a Duplexer Jam

1. Open the duplexer's top cover by pulling it toward the back of the printer (fig. 11.22).

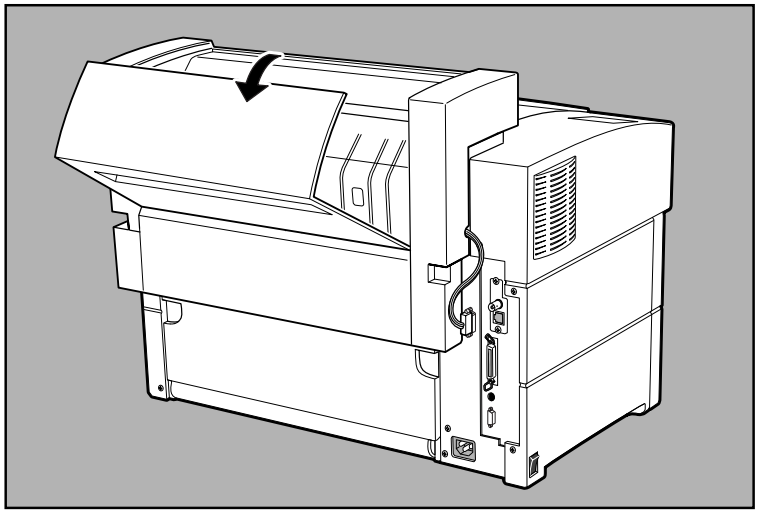


Fig. 11.22 Open the Duplexer Top Cover

2. Remove any jammed paper from the top of the duplexer (fig. 11.23).

   Note: Be careful with the jammed paper. Since the toner has not been fixed properly, it may rub off.

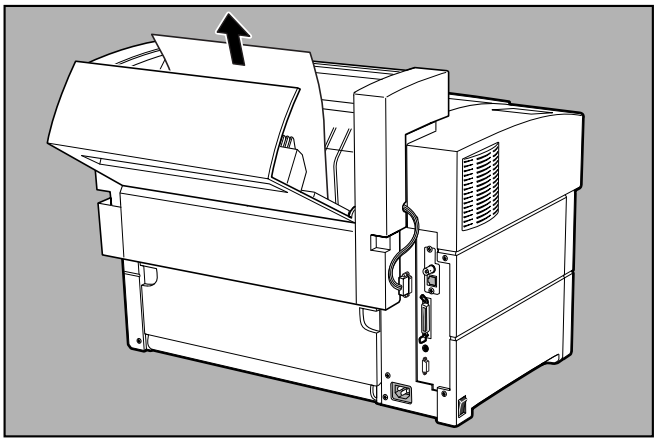


Fig. 11.23 Remove Media Jam from the Top of the Duplexer

3. Close the duplexer's top cover (fig. 11.24).

   Note: Make sure the cover is completely closed to prevent printing and paper jam problems.

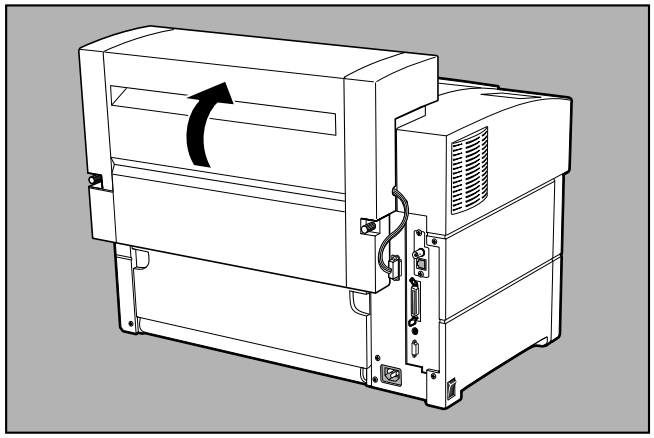


Fig. 11.24 Close the Duplexer Top Cover

4. Open the duplexer's bottom cover by pulling it up from the bottom (fig. 11.25).

   Note: There is a catch to hold the bottom cover open. You will feel a slight resistance as the catch is enabled when you open the cover.

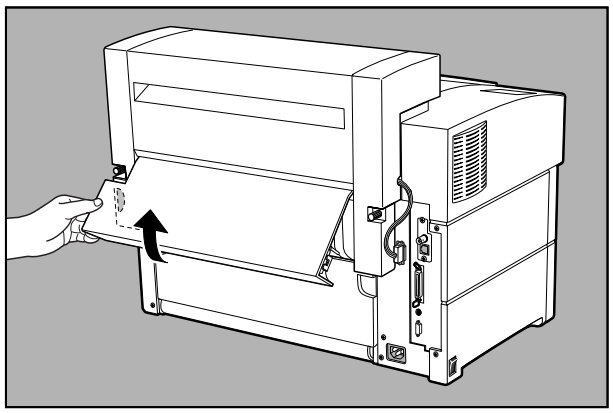


Fig. 11.25 Open the Duplexer Bottom Cover

5. Remove any jammed paper from the bottom of the duplexer (fig. 11.26).

   Note: Be careful with the jammed paper. Since the toner has not been fixed properly, it may rub off.

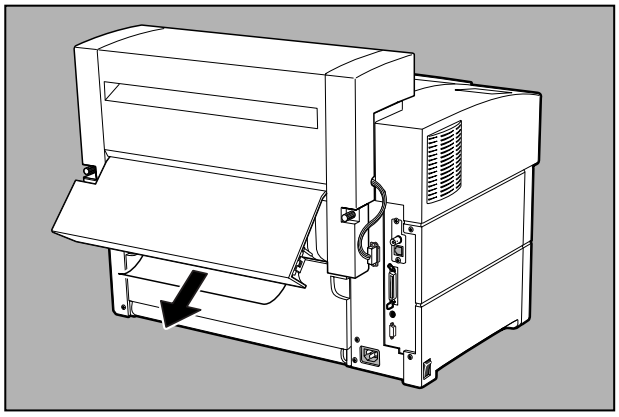


Fig. 11.26 Remove Media Jam from the Bottom of the Duplexer

6. Close the duplexer's bottom cover (fig. 11.27).

   Note: Make sure the cover is closed completely to prevent printing and paper jam problems.

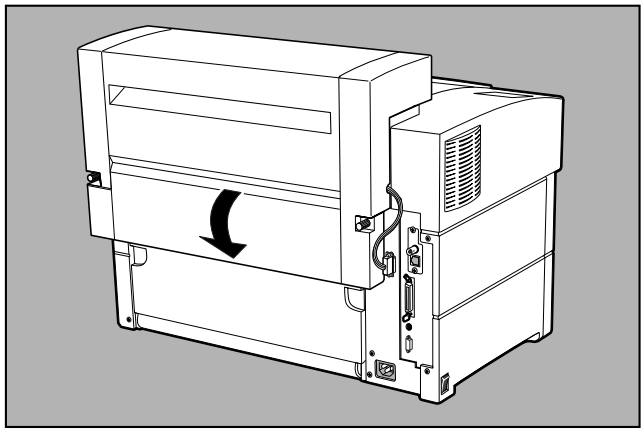


Fig. 11.27 Close the Duplexer Bottom Cover

Reassembling the Printer

1. Insert the toner cartridge's pins into the printer's guide channels. Slide the cartridge into the printer until it stops, making sure it is seated properly (fig. 11.28). See "Toner Cartridge" in chapter 2.

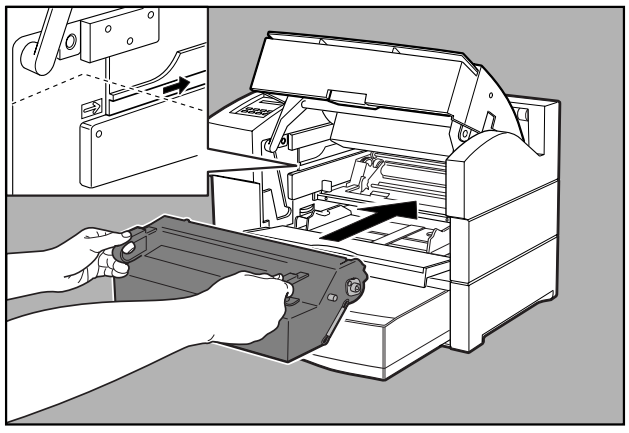


Fig. 11.28 Reinstall the Toner Cartridge

2. Reload the paper cassette(s), if necessary, and reinsert into the paper feeder(s) (fig. 11.29). See “Paper Cassette” in chapter 2.

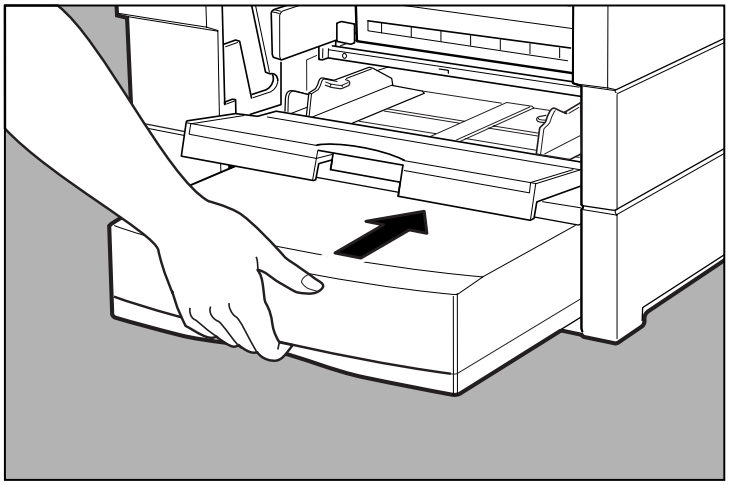


Fig. 11.29 Reinstall the Paper Cassette(s)

3. Close and latch the top cover (fig. 11.30).

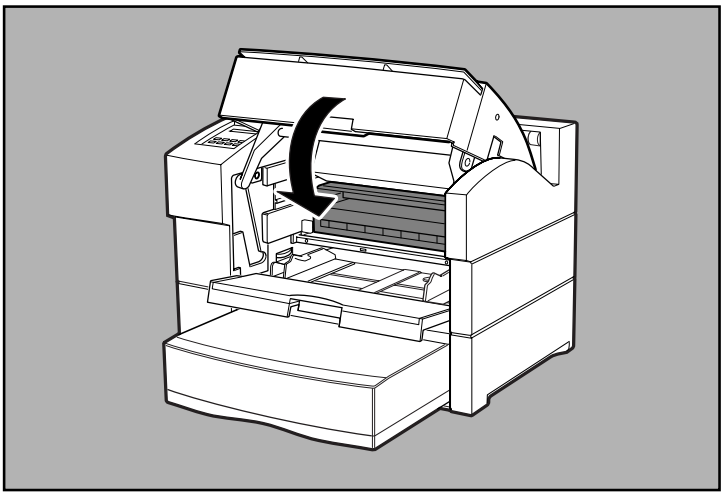


Fig. 11.30 Close the Top Cover

4. Reload the multipurpose feeder, if necessary. Close the multipurpose feeder cover if the media fits completely inside the tray. See “Multipurpose Feeder” in chapter 2.

   Note: If the printer was turned off to clear paper jam, turn on the printer before loading the multipurpose feeder.

5. Verify that `READY/IDLE` appears in the front panel window.

   Note: If the paper jam was only in the multipurpose feeder or a paper cassette and the error message does not disappear, open and close the top cover and multipurpose feeder again.

Calling for Technical Support

If you encounter problems that cannot be resolved by following the procedures in this chapter, you may call XANTÉ’s Technical Support at 800-926-8393 (US and Canada) from 7 a.m. until 7 p.m. Central Standard Time (CST) Monday through Thursday and 7 a.m. until 6 p.m. CST on Friday. From other areas, call your XANTÉ vendor.

Note: Depending on your service agreement, there may be a charge for Technical Support.

To assist our technicians in serving you more effectively, please have the following information available when calling for Technical Support.

Troubleshooting Information

- A start-up page from the printer
- Printer model and serial number (on the XANTÉ sticker on the back of the printer)
- Printer ROM version (Press the On Line key for 5 seconds; the version appears in the window.)

- Your computer type and operating system (version number)
- Configuration menu settings for your printer interface
- Amount of printer memory (shown on start-up page)
- Applications (including version numbers) you are using
- Full description of the problem
- List of error or status messages if applicable

You can fax questions to XANTÉ's Technical Support at 334-342-4635 or email questions to techsupport@xante.com. Include your name, your company name, and the troubleshooting information listed earlier in this section. Indicate whether you wish the response to be faxed or emailed and include the appropriate number or address.

If you have access to the internet, you can access XANTÉ's web page at www.xante.com. From this site, you can download printer drivers, software, PPDs, and access other technical information.

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